Journal of the American College of Cardiology
© 1999 by the American College of Cardiology
Published by Elsevier Science Inc.

Vol. 34, No. 7, 1999
ISSN 0735-1097/99/$20.00
PII S0735-1097(99)00570-7

Author Index: Volume 34

ABACAS Investigators, 1028
Abel JG, 802
Abinader EG, 1744
Abizaid A, 707
Abizaid AS, 707
Abolmaali K, 476
Abrikosova NA, 539
Adachi K, 374
Adams KF Jr., 1602
Adelman AG, 1675
Agmon Y, 1867
Agranat O, 1932
Aguinaga L, 351
Aguirre FV, 1884
Aida S, 587
Aimé-Sempé C, 1577
Airaksinen KEJ, 1878
Aizawa T, 1028
Akagi T, 233
Akasaka T, 90
Akimitsu T, 211
Akiyama T, 325, 651
Al Kasab S, 25
Alderman EL, 1750
Alessandrini RS, 730
Alfonso F, 1490
Allolio B, 1427
Alonso J, 1498
Alonso L, 515
Alt E, 1569
Alter DA, 23
Alvarez RJ Jr., 177
Ambrose JA, 663
Ambrosi P, 274
AMISTAD Investigators, 1711
Ammer R, 1569
Amos DJ, 62
Amouyel P, 830
Amsterdam EA, 289
Anand IS, 594
Anderson JL, 325, 1778
Anderson TJ, 631
Andersson TLG, 2007
Andrews NP, 507, 2023
Ånggård EE, 2007
Angioï M, 113
Antman EM, 739, 974, 1403
Anzuini A, 1910
Arai M, 280
Arakawa K, 1443
Ares M, 515
Armstrong PW, 12
Asanoi H, 500, 1924
Asanuma H, 2120
Ascoop CAPL, 1760
Asinas LA, 1153
Asplund K, 1784
Aubier M, 1577
Augostini R, 2031
Aukrust P, 2061
AVID Investigators, 325, 1090, 1111
AVID Investigators T, 1552
Awata N, 1050
Ayanian JZ, 20
Ayati S, 1595
Ayres NA, 857
Ayuela J, 515

Bacanu S-A, 2105
Baer FM, 1005
Baessler C, 325
Bagger JP, 455
Bailey KR, 777, 1129, 1137, 2078
Baim D, 468
Baim DS, 698
Bair TL, 1778
Baker AJ, 603
Ball SP, 1020
Ballinger S, 1216
Banga JD, 140
Bañuelos C, 1490
Bär FW, 1507
Barbagelata NA, 1711
BARI Investigators, 1750
Barlatier A, 274
Barsness G, 1891
Bartunek J, 264, 1939
Bashore TM, 1750
Basmadjian A-J, 1137
Batchelor WB, 12
Bates ER, 692
Bauters C, 476
Bax JJ, 163
Bdolah-Abram T, 1682
Becker LC, 280
Becker RC, 1020
Bednarz J, 409
Behar S, 70, 1721
Behrens S, 1560
Bell MR, 1891
Bella JN, 1625
Beller GA, 9
Bellot V, 1891
Benaminovitz A, 1807
Benedict CR, 1644
Benessiano J, 830
Benestent II Investigators, Cardialysis, Rotterdam, 1507
Ben-Yehuda A, 1682
Berger AK, 1831
Berger PB, 1891
Berowitz NL, 1791
Bertrand A, 113
Bertrand ME, 476
Betriu A, 1498, 1729
Beuthien W, 848
Beyar R, 25
Biasucci LM, 1512, 1696
Billinger M, 1985
Bisera J, 815
Black MD, 545
Blackburn GL, 1153
Blackstone EH, 618
Blanchard D, 1659
Blasini R, 1036
Blevins R, 1711
Block A, 170
Block PC, 49
Boccuzzi SJ, 1061
Bodard H, 274
Boege F, 1545
Boersma E, 163
Boivin V, 1545
Bol A, 1005
Bolli R, 639, 1711
Bonnefoy E, 1839
Bonnet D, 866
Bonnier JJRM, 25
Bonow RO, 315, 730
Bontemps L, 1839
Booth KL, 2105
Borgers M, 2126
Borries M, 486
Borst MM, 848
Bostrøm P, 1794
Bøtker HE, 455
Botnar RM, 524
Bourassa MG, 1750
Bouvenot G, 274
Bowering J, 802
Bowles NE, 857
Boyko V, 70, 1721
Bozkurt B, 177
Bradley WA, 674, 681, 1471
Braith RW, 1170
Branly F, 113
Braunwald E, 20, 106, 739, 974, 1365, 1403
Breidenbach C, 402
Brevetti G, 1618
Bricker JT, 857
Bridges ND, 1637
Briguori C, 1907, 1910
Brinker JA, 1671
Brockman RG, 358
Brodsky MA, 325, 1090
Brooks MM, 716
Brouant B, 113
Brown E, 663
Browne KF, 1711
Brugada J, 351
Bruyne BD, 1939
Buchwald AB, 25, 722
Buffon A, 1512, 1696
Buller E, 468
Burek KA, 716
Burger AJ, 1153
Burke AP, 760
Burkhoff D, 55
Burnette J, 1061
Butler J, 1802

CABADAS Research Group of the Interuniversity Cardiology Institute of the Netherlands, 1760
Cachin J-C, 1012
Cadeddu M, 1193
Caforio ALP, 181
Cagide AM, 1729
Caiati C, 122, 1193
Calabuig J, 1498
Califf RM, 12, 1711, 1729, 1750
Caligiuri G, 1696
Calkins H, 1595
Calvin JE, 1689, 1895
Camacho ME, 1587
Camerini F, 181
Camez A, 966
Camm AJ, 1440
Cannom DS, 1111
Cannon CP, 739, 974, 1395, 1403
Cannon L, 461
Cappelletti A, 1484
Carabello BA, 2086
Caramori PRA, 1675
Carere RG, 468
Caretta Q, 428
Carlquist JF, 1778, 1982
Carlson MD, 325
Cartier P, 1609
Casas AC, 1711
Castaigne A, 1012
Castellanos A, 1096, 1878
Caumo A, 1552
Cavlovich D, 1595
Cedillo-Salazar FR, 204
Celentano C, 989
Celermajer DS, 2002
Chaitman BR, 1750
Chan JR, 1201
Chan KW, 1522
Chan SKW, 1522
Chandrashekhar Y, 594
Chang H-J, 998
Chao S, 334
Charlamb MJ, 1153
Charpiot P, 274
Chatel D, 830
Chatterjee K, 155
Chaudhry FA, 730
Chen C-H, 1529
Chen D, 246
Chen J, 1388
Cheriex EC, 389
Chern M-S, 998
Chevalier P, 1839
Chiariello L, 216
Chierchia S, 1552
Chierchia SL, 441, 1484
Chikada M, 587
Child JS, 223
Cholesterol Recurrent Events CARE Investigators, 106
Chomsky DB, 1802
Chook P, 2002
Chowienczyk PJ, 2007
Choy AMJ, 396
Christensen CC, 1794
Christian TF, 777
Chung MK, 2031
Ciavatti M, 435
Cocke TP, 663
Cody RJ, 1360
Cohen DJ, 1061
Cohen M, 70
Cohen MG, 1729
Cokkinos DV, 1099
Collins MH, 554
Colman T, 1498
Colombo A, 25, 651, 1484, 1907, 1910
Colosso MQ, 1769
Cook JR, 1061
Cook WJ, 241
Cooke JP, 1201
Cooklin M, 358
Cordisco ME, 1807
Cornel JH, 163
Cortigiani L, 1769
Costa S, 1552
Cotter B, 578
Coughlan B, 409
Cox ID, 455
Coxson P, 768
Coyne KS, 1954
Crea F, 216, 1512
Crispell KA, 837
Csako G, 1738
Culler S, 1061
Cutlip DE, 698

Dabrowski P, 441
Dahlöf B, 1625
Dalesandro MR, 95
Danchin N, 113
Dangas G, 663
Danias PG, 524
Danielson GK, 191
Darbar D, 396
Dassen WR, 389
Davis BP, 1778
Davis BR, 106
Dawkins KD, 1435, 1507
de Bakker JMT, 570
De Becker J, 524
De Gregorio J, 651, 1910
de Kam PJ, 1760
de Leeuw M, 545
De Matteis C, 810
De Muinck ED, 389
De Simone A, 810
de Simone G, 1625
de Winter RJ, 1899
De Wolf D, 1219
DeCampli WM, 554
Delcan JL, 1498
Dell'Orto S, 396
DeMaria AN, 578, 1659
Denktas AE, 777
DeQuattro V, 1625
Deshpande NV, 1067
Desjardin A, 698
Desmonts J-M, 830
Detrano RC, 787
Devereux RB, 1625
Dewé W, 989
Di Lenarda A, 181
Di Mario C, 651, 1910

Di Napoli T, 810
Di Stasio M, 810
DiCarli MF, 1711
Dickfeld T, 1036
Diehm C, 1618
Dienesch C, 1427
Dillow J, 448
Dimas AP, 1750
DiPaula A, 280
Disco C, 1067
Diver DJ, 698
Dodek A, 468
Doherty TM, 787
Domanski MJ, 1090
Douglas PS, 264, 2111
Doyle TK, 204
Dubois-Rande J-L, 1012
Dudek A, 343
Duff HJ, 325
Dulak J, 1201
Dumesnil JG, 1609
Dunlap SH, 1602
Dunselman PHJM, 1760
Dunzendorfer S, 1975
Dupouy P, 1012
Durand G, 830
Durand L-G, 1609
Duval-Moulin A-M, 1012

Eagle KA, 692, 1262
Echo Persantine International Cooperative (EPIC) Study Group, 1769
Echo-Dobutamine International Cooperative (EDIC) Study Group, 1769
Egger G, 1975
Eisenberg PR, 1711
Ekström L, 25
Eldar M, 1721
Elhendy A, 163
Elian D, 1932
Eliasson M, 1784
Elizari MV, 1729
El-Kadi T, 587
Ellenbogen KA, 1587
Ellis SG, 692
Elmer SP, 1778
Elosua R, 1947
Engelen DJ, 389
Englund A, 1560
Enriquez-Sarano M, 1129, 1137, 2078
Epstein AE, 325, 1090, 1111
Epstein SE, 1738
Erdmann E, 1005
Erdogan O, 2031
Ergin A, 334
Erkelens WD, 140
Ernst SMPG, 25
Esato K, 255
Escaned J, 1490
Espevik T, 2061
Ettedgui JA, 2105
European 7219 Jewel Investigators, 1560
Evans JJ, 2023
Exner DV, 325
Ezan E, 2072

Fajadet J, 25
Fakhoury L, 1420
Falaschi A, 181
Fallon JT, 1045
Farb A, 760
Fatemi M, 1839
Feigenbaum MS, 1170
Feinberg M, 1932
Feinberg MS, 748
Feldman AM, 177
Ferlic LL, 204
Fernández-Avilés F, 1498, 1507
Fernandez-Ortiz A, 1490
Fetics B, 1529
Feyter PJ, 1067
Finci L, 651
Fink C, 1954
Fioretti PM, 163
Firstenberg MS, 795
Fischenbeck C, 363
Fischer GA, 739
Fischer K, 25
Fischer Y, 486
Fishbein MC, 871
Fisher JD, 2015
Fishman D, 1625
Fisman EZ, 611
Fitzgerald P, 1028
Fitzgerald R, 448
Fitzpatrick MM, 698
Flaker GC, 106
Flameng W, 2126
Fleck E, 25
Fleisch M, 1985
Flickner SR, 1153
Fochesato E, 1552
Fogel RI, 2023
Folliguet T, 1577
Follmann D, 325
Forrester JS, 1537
Fouad-Tarazi FM, 1360
Foubert L, 1219
Fowler M, 2061
Fragasso G, 441, 1552
Francis CK, 1360
Franke A, 1823
Fraser C, 2072
Freedom RM, 545
Freeman WK, 1129
Freimark D, 748, 1932
Freixa R, 1947
French JK, 62
Frey A, 1954
Frey MJ, 1403
Friedman PL, 381
Friggi A, 274
Fritz P, 561
Frohlich ED, 1369
Frøland SS, 2061
Frye RL, 2078
Fuchs S, 1682, 1704
Fujii K, 1028, 1966
Fujita T, 1028
Fujiwara H, 1966
Fujumura Y, 255
Fuster V, 1045, 1348, 1851, 1854

Gallimore JR, 1696
García E, 1498
Garcia M-J, 409, 795
Garçon D, 274
Gardin JM, 1633
Gare M, 1682
Garot J, 1012
Garratt K, 1891
Garratt KN, 1163
Garson A Jr., 294, 607, 886, 1229, 1655
Gaspardone A, 216
Gasparini M, 810
Gat O, 1682
Gawaz M, 1420
Gentile F, 1867
Gerber BL, 1939
Ghali M, 1403
Ghiringhelli O, 274
Giacca M, 181
Giambartolomei A, 698
Gibbons RJ, 912, 1711
Gibson CM, 739, 974, 1403
Gibson DG, 1117
Gigli G, 1769
Gilligan DM, 1587
Gimeno F, 1498
Gioffré PA, 216
Giugliano RP, 974, 1403
Gladbach U, 25
Goel RK, 1537
Goicolea J, 1490
Gold MR, 358
Goldberg RJ, 1378
Goldman L, 768
Goldman PA, 768
Goldschmidt-Clermont P, 280
Goli S, 2043
Gomes JA, 334
Gonzalez-Vilchez F, 515
Gordon PC, 698
Gore JM, 1378
Gorgels AP, 389
Gosling RG, 2007
Gotsman MS, 1682
Gottdiener JS, 1831, 2088
Gottlieb S, 70, 1721
Gottlieb SO, 343
Gould RJ, 876
Grady D, 138
Granger CB, 12, 1711, 1729
Grantham JA, 1163
Graves T, 170
Grebe OC, 722
Greenberg NL, 795
Greene HL, 325, 1111
Greene R, 1403
Greenhouse SW, 1954
Greenland P, 1348
Gregori D, 181
Grentzinger A, 113
Grigioni F, 2078
Grill D, 1891
Grill DE, 1163
Grimm RA, 795
Grinfeld LR, 1729
Grollier GM, 966
Grossman W, 876
Grube E, 25
Grudzien C, 739
Gruberg L, 1932
Grundy SM, 1348
Guarnieri T, 343
Gueret P, 1012
Guerrero JL, 1831
Guisgand G, 274
Gullestad L, 2061
Gupta S, 594
Gustafsson F, 83
Gustafsson I, 83
Guyton RA, 1262
Gwynne JT, 2088

Haager PK, 33
Haass M, 848
Habashi J, 1778
Habib G, 274
Haering JM, 2096
Hagendorff A, 363
Hagler DJ, 241
Haliasos A, 1099
Hallidie-Smith KA, 2015
Hallstrom AP, 1090
Hamada H, 233
Hamamichi Y, 233
Hamdan MH, 621
Hamm CW, 25
Hammes LV, 1891
Hampton T, 2111
Hanet C, 1507
Hanley FL, 539
Hannan EL, 1481
Hanrath P, 33, 1823
Hara M, 211
Harada T, 381
Harpaz D, 70, 1721
Harrell L, 40, 49
Harrell LC, 1145
Har-Zahav Y, 1932
Hatem SN, 1577
Hatton M, 1378
Hauck C, 170
Haude M, 25
Haverich A, 197
Haviv YS, 1682
Hearne MJ, 674, 681, 1471
Heart Muscle Disease Study Group, 181
Hebert J, 1020
Hehrlein C, 561
Heijmans BT, 1176
Heikkilä P, 2035
Heimburger M, 1577
Heins M, 486
Henein MY, 1117
Henrion D, 830
Henry M, 25
Henry PD, 204
Hernandez R, 1490
Herre JM, 1111
Herrmann G, 25, 1461
Hershberger RE, 837
Hettleman B, 674, 681
Hettlemen BD, 1471
Heublein B, 197
Heyndrickx GR, 1939
Hijmering M, 140
Hildebrandt P, 83
Hinohara T, 1028
Hinrichs M, 402
Hirai N, 146
Hirashima O, 146
Hirose O, 233
Hirotani T, 532
HIT-4 Investigators, 966
Ho KKL, 698
Hocini M, 570
Hod H, 70, 748, 1932
Hoffer EP, 989
Hoffmann R, 33, 1823
Hofmann F, 2051
Höher M, 722
Hollander JE, 95
Holmes DR Jr., 1163, 1891
Holubkov R, 177
Hombach V, 722
Hong MK, 1704
Honos G, 1609
Hori M, 1966, 2120
Horn M, 1427
Horton DP, 155
Hosokawa H, 1028
Hozumi T, 90
Hsieh I-C, 998
Hügel S, 1427
Huhtasaari F, 1784
Huikuri HV, 1878
Humen DP, 1042
Hundley R, 461
Hung K-C, 998
Hunink MGM, 768
Hurley T, 1020
Hursey T, 1689
Hurst TM, 402
Husain M, 507
Hvass U, 830
Hyde TA, 62

Ichida F, 233
Ifetroban Study Group, 170
Igawa A, 500, 1924
Iglarz M, 830
Iliadis EA, 1689
Iliceto S, 122, 1193
Ilsley C, 25
Inglessis I, 1145
Inoue H, 500, 1924
Inselmann G, 1545
Ip J, 334
Isner JM, 246
Isobe T, 233
Israeli Thrombolytic Survey Group, 70, 1721
Ito M, 211
Ito T, 1966
Itti R, 1839
Iwai S, 1082
Iwao T, 211
Izumi M, 1050

Jackman WM, 2043
Jahns R, 1545
Jandová R, 716
Janlert U, 1784
Janse MJ, 570
Janssens U, 33
Jernberg T, 1413
Jimi S, 1443
Jobin J, 1609
Joffe II, 2111
Johnson RG, 2096
Joho S, 500, 1924
Jones M, 587
Juillière Y, 113
Jung W, 363
Junghans U, 1663
Junot C, 2072
Juratli N, 2031

Kachaner J, 866
Kaikita K, 983
Kainulainen K, 494, 2035
Kaiser S, 561
Kaji E, 409
Kaji S, 90

Kameda T, 532
Kameyama T, 500, 1924
Kamiya T, 233
Kaneda K, 211
Kanmatsuse K, 1966
Kaplan S, 223
Kaplinsky E, 748, 1932
Kappagoda CT, 289
Karavite D, 692
Karch M, 2051
Karcher G, 113
Karjalainen J, 494
Karmally W, 1807
Kaski JC, 455, 1440
Kass DA, 1529
Kastrati A, 660
Kastrau F, 33
Katagiri T, 1644
Katoh O, 1028
Katz N, 402
Katz SD, 170
Katz SE, 264, 2111
Kawamoto T, 90
Kawano H, 146
Kay IP, 1067
Kearney DL, 857
Keely EC, 1963
Keller N, 716
Kellett MA, 1471
Kellett MA Jr., 674, 681
Kelly RP, 2007
Kent KM, 707, 1704
Kere J, 2035
Keto P, 2035
Khandheria BK, 241, 1129, 1867
Khoury Z, 70
Kiechl S, 1975
Kijima M, 1028
Killip D, 1123
Kim J, 1153
Kim S, 1090
King SB, 615
Kini A, 663
Kini S, 663
Kip KE, 1750
Kirkorian G, 1839
Kishon Y, 1721
Kissinger KV, 524
Kitakaze M, 2120
Klein LW, 1689, 1895
Kline MW, 857
Kloer H-U, 1995
Klötzsch C, 1823
Klues HG, 33
Kluess HA, 1170
Kluft C, 1176
Kluge R, 1663
Knight BP, 1595
Knight JD, 12
Knook DL, 1176
Knudtson M, 1042
Koba S, 1644
Kobayashi N, 651
Kobayashi T, 1050, 1050
Kobayashi Y, 651
Køber L, 83
Koch KT, 1899
Koch R, 409
Kochs M, 722
Kocovic DZ, 381
Kolodgie FD, 468
Komamura K, 2120
Kondo T, 280
Kong DF, 1729
Kontula K, 494, 823, 2035
Korcarz C, 409
Kornowski R, 1704
Kosa I, 1036
Kosinski AS, 1061
Köster R, 25
Kowey PR, 348
Krajewska M, 1577
Krajewski S, 1577
Krikler D, 2015
Kristensen BO, 455
Krüger D, 1461
Krumholz HM, 1388
Kübler W, 561, 848
Kuck K-H, 25
Kuckuck H, 966
Kugelmass AD, 461
Kugiyama K, 146, 983
Kühl HP, 1823
Kujala UM, 494
Kumamoto T, 532
Kunieda T, 1188
Kuntz RE, 698
Kunz D, 1995
Kurogane H, 1028
Kurotobi S, 233
Kusma SE, 876
Kuzuya T, 2120
Kyotani S, 1188

Laarman GJ, 966
Lablanche J-M, 476
Lai G, 1193
Laitinen P, 823
Lakkis NM, 1123
Lambert D, 1618
Lancaster S, 1090, 1111
Landi P, 1769
Lang R, 155
Lang RM, 409
Lansing AM, 55
Lansky AJ, 707
Lansman S, 334
LaRosée P, 848
Laser Angioplasty of Restenosed Stents (LARS) Investigators, 25
Lasorda DM, 698
Lauer B, 1663
Lauer MS, 618, 754
Lavie P, 1744
Lazarus P, 966
Lazzara R, 2043
Ledingham R, 325
Leesar MA, 639, 1711
Lehmann G, 1569
LeJemtel TH, 155, 170
Leon MB, 25, 698, 707, 1704
Leon MN, 49, 1045, 1145
Leonardo F, 1910
Lepper W, 1823
Lerman BB, 1082, 1595
Leschke M, 486
Lessard D, 1378
Levine RA, 2096
Lévy BI, 830
Levy D, 1360
Lewalter T, 363
Li C, 871
Li D, 1208
Li Y, 1020
Liang C-s, 155
Liang Y-L, 131
Lichtenstein SV, 802
Lie KI, 1760, 1899
Ligon RW, 1884
Lima VC, 1675
Lin F-C, 998
Lindahl B, 1413
Lindsay J Jr, 1916
Ling H, 802
Ling LH, 2078
Linton AB, 1637
Lipshultz SE, 857
Littmann L, 1106
Liuzzo G, 1512, 1696
Loh P, 570
Lohavanichbutr K, 802
Lohse MJ, 1545
Lok DJA, 966
Lolin YI, 2002
Lopez-Cuellar J, 49, 1145
Lorell BH, 264
Losordo DW, 246
Lowenstein J, 1769
Lowry DR, 343
Lu C, 441
Luccioni R, 274
Lucore CL, 1884
Lüderitz B, 363
Lui C, 155
Luley C, 1995
Lundberg V, 1784
Lundergan CF, 1954
Lunn ER, 241
Lupón J, 1947
Lynch JJ Jr., 876

Ma Y, 1020
Macaya C, 25, 1490
MacCallum H, 2007
MacFadyen R, 2072
MacGowan GA, 177
Mahaffey KW, 1711
Mahdi NA, 49, 1145
Mahle WT, 1637
Mailhac A, 1484
Maisel A, 448
Mäkikallio T, 1878
Malcom GT, 760
Malenka DJ, 674, 681, 692, 1471
Manchikalapudi S, 639
Mancini D, 1807
Mancini GBJ, 468
Mandelzweig L, 70
Manning WJ, 524
Manolis AS, 1099
Mäntysaari M, 494
Manyari DE, 1042
Maounis T, 1099
Marble SJ, 974, 1403
Marciniak TA, 1388
Mareels K, 1219
Margonato A, 1484
Marie PY, 113
Mark DB, 12
Markowitz SM, 1082, 1595
Marmur JD, 663
Marquetant R, 848
Marrugat J, 1947
Marsico F, 1910
Marwick TH, 754
Maseri A, 1512, 1696
Masiá R, 1947
Maslow AD, 2096
Mason D, 461
Mason RP, 1857
Masotti M, 1498
Masui Y, 280
Matas M, 351
Matetzky S, 748, 1932
Mathew V, 1163, 1891
Mathias W Jr, 1769
Matsunari I, 1036
Matsuzaki M, 255, 1966
Matthys D, 1219
McCarthy PM, 795
McCrindle BW, 545
McElhinney DB, 539
McFadden EP, 476
McGrath BP, 131
McGrath PD, 674, 681, 1471
McHam SA, 754
McKenna WJ, 181
McLaughlin SC, 62
McLaughlin VV, 1184
McNamara DM, 177
McNeil JJ, 131
McQueen C, 468
Mehran R, 707, 1704
Mehta D, 334
Mehta JL, 1208
Meier B, 1985
Melby S, 1891
Melin J, 1005
Melin JA, 1939
Meliss RR, 197
Melita-Manolis H, 1099
Melkert R, 1507
Meloni L, 1193
Menown IBA, 1403
Mercadier J-J, 1577
Merx MW, 1823
Merz CNB, 1360
Mesley R, 974
Messerli FH, 1652
Mestroni L, 181
Metreweli C, 2002
Metz J, 561
Meyer TE, 1378
Middleton KJ, 1123
Millasseau SC, 2007
Miller JM, 1595
Milliken CE, 246
Mills RM, 155
Minamino T, 2120
Minardi G, 1769
Minatoguchi S, 1966
Miner PD, 223
Mintz GS, 707
Miocic S, 181
Mishkel GJ, 1884
Misumi K, 983
Mito H, 233
Mitrani R, 1878
Mittal S, 1082, 1595
Mittleman M, 768
Miura T, 1966
Miyagishima RT, 802
Miyake T, 233
Miyamoto S, 983
Miyao Y, 146
Miyatake K, 1188
Miyawaki T, 233
Moka D, 1005
Molhoek GP, 966
Molina L, 1947
Molina-Viamonte V, 1711
Monin J-L, 1012
Mont L, 351
Montaldo C, 122, 1193
Monti LD, 1552
Montisci R, 122, 1193
Montorfano M, 1910
Moore P, 539
Mora P, 1427
Morady F, 1595
Mor-Avi V, 409
Morel M-AM, 1507
Moreno PR, 1045, 1145
Moreyra E, 1954
Morgan JP, 2111
Morice MC, 25
Morillo CA, 1587
Morris DC, 1
Morton JJ, 2072
Moscucci M, 692
Mosseri M, 1682
Motoyama T, 146
Motro M, 611
Movsesian MA, 318
Mowrey KA, 2031
Moyé LA, 106
Muhlestein JB, 1778
Mulder BJM, 1760
Muller DWM, 461, 692
Muntoni F, 181
Murakami Y, 233
Murali S, 177
Murcia AM, 1045
Murphy S, 1403
Murphy SA, 974
Muttreja MR, 95
Myerburg RJ, 1096, 1878

Nadzam GR, 2031
Nagaya N, 1188
Nagueh SF, 1123
Nakagawa M, 211
Nakamura S, 983
Nakamura T, 1050
Nakanishi N, 1188
Nakatani S, 795
Naqvi TZ, 1537
Nasir N Jr., 204
Natrecor Study Group, 155
Nauman DJ, 837
Naydeck B, 716
Naylor CD, 23
Ndrepepa G, 2051
Neches WH, 2105
Neubauer S, 1427
Neuhaus K-L, 966
Neumann FJ, 1036, 1420
Neverve J, 1036
Newhouse TT, 334
Newton GE, 1675
Ni H, 837
Ni J, 857
Niebauer J, 1201
Niebauer MJ, 2031
Nishi T, 233
Nishimura RA, 191
Nishiyama K, 983
Niwa K, 223
Noda T, 1966
Nolan S, 343
Nonogi H, 1966
Norman JE, 1738
Northern New England Cardiovascular Disease

Study Group, 674, 681, 1471
Noth J, 1823
Novikov I, 748, 1932
Novikov M, 1932
Nozawa T, 500, 1924

Oberhollenzer F, 1975
Ocampo C, 1111
O'Connor GT, 674, 681, 692
Oda H, 1028
Oesterle S, 468
Oesterle SN, 1663
Ogawa H, 146, 983
Ohkusa T, 255
Ohman EM, 1729
Ohnishi Y, 374
Okano Y, 1188
O'Leary PW, 241
Olivier P, 113
Olsovsky MR, 358
O'Meara JR, 674, 1471
Ommen SR, 191
Omran H, 363
O'Neill WW, 461, 1058
Ono Y, 233
Ooie T, 211
Ophuis AJO, 389
Orlandi C, 1711
Ormiston JA, 1507
O'Rourke DJ, 681, 1471
Orszulak TA, 1129
Osterhues H-H, 722
Östman-Smith I, 1813
O'Sullivan CA, 1117
Otsuji S, 1050
Ott I, 1420
Otto CM, 1837

Paavonen T, 2035
Pacifico A, 204
PACT Investigators, 1954
Padder FA, 507
Page RL, 621
Pagnotta P, 441, 1910
Painter CA, 876
Pakala R, 1644
Palacios IF, 40, 49, 1045, 1145
Palamara A, 435
Palmieri V, 1625
Paranicas M, 1625
Paridon SM, 1637
Parikka H, 1794
Park SC, 2105
Parker JD, 1675
Parker MA, 730
Parmley WW, 293, 606, 885, 1228, 1654
Parrillo JE, 1689
Pashkow FJ, 754
Pasqualetti P, 1512
Patel H, 62
Paternak R, 1348
Pathan A, 1145
Pathan AZ, 49
Patkaï J, 866
Patterson C, 1216
Pavesi M, 1947
Pe E, 334
Pelargonio G, 2023
Peled N, 1744
Pellegrino A, 216
Pepine CJ, 1170
Pepys MB, 1696
Perez-Atayde AR, 857
Perez-Vizcayno MJ, 1490
Perloff JK, 223
Pernat AM, 815
Perreault-Micale CL, 2111
Peters A, 486
Peters RJG, 1899
Peterson ED, 12
Pethig K, 197
Petrazzuoli F, 810
Petrossian E, 539
Pfeffer MA, 106, 1360
Pfisterer M, 1760
Phan CV, 1552
Philip I, 830
Piatti PM, 1552
Pibarot P, 1609
Picano E, 1769
Pichard AD, 707, 1704, 1916
Piek JJ, 1899
Piérard LA, 989
Piippo K, 823, 2035
Pillar G, 1744
Pinamonti B, 181
Pingitore A, 1769
Pinnow EE, 1916
Piper WD, 674
Pislaru S, 2126
Pizzulli L, 25
Plantefève G, 830
Platia EV, 1595
Plaustro G, 428
Plewan A, 1569
Podrid PJ, 340
Poldermans D, 163
Pontiroli AE, 1552
Pophal SG, 2105
Popma JJ, 698
Popovtzer MM, 1682
Porsch-Oezçueruemez M, 1995
Povoas HP, 815
Powell J, 1111
Pozza G, 1552
Prahash AJ, 594
Prairie Cardiovascular Consultants Ltd., 1884
Prasad A, 507
Previtali M, 1769
Prystowsky EN, 2023
Psarros L, 1099
Puetter K, 1569
Puma JA, 1711

Quiñones MA, 1123
Quinton H, 681
Quyyumi AA, 507, 1738

R.E.S.C.A.T.E. Investigators, 1947
Rabah M, 461
Rabelink TJ, 140
Rabinowitz B, 748, 1932
Racine N, 1954
Radford MJ, 1388
Radin M, 170
Radke PW, 33
Ramazzotti V, 1512
Rambaldi R, 163
Ramzy IS, 1117
Randolph GR, 241
Rath S, 748
Raymond K, 1522
Rebuzzi AG, 1512, 1696
Reddy VM, 539
Reed JC, 1577
Reeder GS, 672
Reffelmann T, 33
Regan MM, 2096
Reiffel JA, 325
Reimers B, 651
Reinauer H, 486
Reincke M, 1427
Reineke T, 1823
Reiner JS, 1954
Reiter MJ, 325
Remah HA, 500, 1924
Resar JR, 55
RESTORE Trial Study Group, 1061
Riba AL, 1954
Rice M, 448
Rich S, 1184
Riesenfeld T, 1813
Riessen R, 561
Rihal CS, 716, 1891
Ritter JM, 2007
Robb JF, 674, 681, 1471
Robson J, 2072
Rocco C, 181
Rocha-Singh KJ, 1884
Roden DM, 396
Rodriguez L, 795
Roelandt JRTC, 163
Rogers EK, 692
Rohrbach S, 264
Rohrbeck S, 1954
Rolland PH, 274
Rome JJ, 554
Roppolo LP, 448
Rosano G, 1484
Rosen AD, 1750
Rosenberg Y, 1111
Rosenblum WD, 177
Ross AM, 1954
Rossi A, 1137
Rosso J, 1012
Rotunno R, 810
Roubin G, 716
Rouleau JL, 106
Rowland E, 1560
Rubinger D, 1682
Rücker-Martin C, 1577
Rumberger JA, 777
Runge MS, 1216
Ruscazio M, 1193
Ruygrok PN, 1507
Ryan KA, 974, 1403
Ryan T Jr., 681
Ryan TJ, 890
Ryan TJ Jr., 674, 1471
Rychik J, 554
Rykke EO, 1794

Sacks FM, 106
Safian RD, 461
Sahn DJ, 587
Saikawa T, 211
Sakamaki F, 1188
Sakamoto T, 146
Sakata T, 211
Saksena S, 1090
Saku K, 1443
Sakurai M, 1050
Sala J, 1947
Saldeen T, 1208
Saliba W, 2031
Salustri A, 435
Sambola A, 351
Sanati A, 25
Sanderson JE, 1522, 2002
Santoni-Rugiu F, 334
Sanz G, 1947
Satler LF, 707, 1704
Sato H, 2120
Satoh T, 1188
Schaff HV, 191
Schauerte P, 2043
Scherlag BJ, 2043
Scherlag MA, 2043
Scherrer-Crosbie M, 1012
Schicha H, 1005
Schiller NB, 1159
Schmermund A, 777
Schmid-Schönbein GW, 578
Schmidt H, 363
Schmidt HHHW, 1427
Schmitt C, 2051
Schneider CA, 1005
Schneider CM, 420
Schneider M, 2051
Schneider-Eicke J, 1036
Schoebel FC, 486
Schömig A, 660, 1036, 1420, 2051
Schotborgh CE, 1899
Schratzberger P, 1975
Schröder R, 966
Schron E, 325, 1090
Schuler G, 1663
Schumacher B, 363
Schunkert H, 40
Schwaiger M, 1036
Schwartz RS, 777
Schwartzman D, 1595
Schweiger MJ, 1403
Schwencke C, 848
Scott CG, 1163
Scott NA, 1360
Seabra-Gomes R, 25
Seccareccia F, 435
Sechtem U, 1005
Segni ED, 1932
Seguchi M, 233
Seidelin PH, 1675
Seiler C, 1985
Sellers MA, 716
Sen S, 594
Senzaki H, 1529
Sequeira RF, 1403
Serés L, 1947
Serra A, 1498
Serra J, 1947
Serruys PW, 25, 1067, 1507
Seward JB, 241, 1129, 1137, 1867, 2078
Shah PK, 871
Sharif D, 1744
Sharifi BG, 871
Sharma SK, 663
Sharpe N, 1625
Shearer WT, 857
Sheedy PF II, 777
Sheiban I, 441, 1910
Sheikhzadeh A, 1461
Shemesh J, 611
Sherman HB, 1153
Shiel LM, 131
Shima T, 374
Shinohara M, 233
Shiota T, 587
Shirai K, 1443
Shirota S, 532
Shivalkar B, 2126
Shofer FS, 95
Shorofsky SR, 358
Shubrooks S, 681
Shubrooks SJ Jr., 674, 1471
Sidi D, 866
Siegel RJ, 1537
Siegmund C, 1545
Sievers J, 692
Sievert H, 25
Sigfusson G, 2105
Sigwart U, 1117
Silver MA, 155
Silver TM, 1471
Simon R, 1461
Simosa H, 49, 1045
Simosa HF, 1145
Sinagra G, 181
Siu C, 280
Sketch MH Sr., 1489
Slack S, 1704
Slagboom PE, 1176
Slotwiner DJ, 1082, 1595
Smialek J, 760
Smiseth OA, 802
Smith S, 1348
Sobel BE, 1226
Sodickson DK, 524
Soejima H, 983
Sonne HS, 455
Spencer FA, 1020, 1378
Spencer KT, 409
Spencer WH III, 1123
Spiegel A, 409
Spodick DH, 610
Spokas D, 1689
Spray TL, 554
SPRINT Study Group, 1721
Squires RW, 191
Stabile G, 810
Stadius ML, 1750
Stahl F, 1663
Stebbins AL, 1729
Stefanadis C, 1075
Stein KM, 1082, 1595
Stent Anti-thrombotic Regimen Study Investigators, 698
Stern S, 70
Stevenson WG, 381
Stiegler H, 486
Stierle U, 1461
Stoddard MF, 639
Stolt A, 494
Stone GW, 1704
Stouffer GA, 1216
Strasser RH, 848
Strauer BE, 486
Stroes ESG, 140
Strömer H, 1427
Struthers AD, 2072
Stuber M, 524
Study Investigators, 1618
Stump GL, 876
Sueta CA, 1602
Sumitsuji S, 1050
Sun S, 815
Sung RJ, 1595
Suryapranata H, 1507
Sutton-Tyrrell K, 716

Suzuki T, 1028
Swan H, 823, 2035
Swan HJC, 1360
Szilard M, 2126

Tada M, 1966
Taeymans Y, 25
Tajik AJ, 191, 1129, 1137, 2078
Tajima M, 264
Takagi T, 90
Takahashi N, 211
Takase S, 1028
Takazoe K, 983
Takeda H, 2120
Takei A, 374
Tamai H, 1028
Tamisier D, 866
Tamura N, 374
Tan E-S, 1760
Tanaka M, 1966
Tanasijevic MJ, 739
Tang W, 787, 815
Tashiro S, 233
Tateyama H, 1050
Tauke JT, 730
Taylor AJ, 760
Taylor MP, 1360
Tchou PJ, 1595, 2031
Tebbe U, 966
Teede HJ, 131
Teiger E, 1012
Teirstein PS, 468, 567
Tenenbaum A, 611
Testa G, 428
Thibault B, 570
Thienelt CD, 264
Thomas JD, 795
Thomas JM, 876
Thompson CR, 802
Thompson LND, 539
Thompson MA, 1954
Tighe JF Jr., 2088
Tilton GD, 1680
TIMI 10B Investigators, 739
TIMI Study Group, 974, 1403
Ting H, 1891
Ting HH, 1163
Tkebuchava T, 246
Toivonen L, 823, 1794, 2035
Tokarczyk T, 177
Tomai F, 216
Tomasko L, 1602
Tomimatsu H, 233
Topol EJ, 618, 1729
Torp-Pedersen C, 83
Tosteson ANA, 768
Touboul P, 1839
Toutouzas K, 1075
Toutouzas P, 1075
Towbin JA, 857
Traboulsi M, 1954
Trace Study Group, 83
Travers KE, 2111
Triandaphyllidi E, 1075
Tribouilloy CM, 1129
Trohman R, 2031
Tsao PS, 1201
Tsuchikane E, 1028, 1050
Tsuji I, 983
Tsujino H, 587
Turco P, 810

Ueda Y, 2120
Ueland T, 2061
Uematsu M, 1188
Ueno K, 1028
Ueyama T, 255
Umeno K, 1924

Vagelos R, 2061
Vainer J, 389
Vale PR, 246
Valentino M, 351
Valle V, 1947
Valsecchi G, 1552
Van Belle E, 476
Van Belleghem Y, 1219
Van Cauteren M, 524
van der Meer J, 1760
van Liebergen RAM, 1899
Van Nooten G, 1219
van Ommen VG, 389
Vandenberg BJ, 1689
Vandervoort PM, 795
Vanhaecke J, 2126
Vanoverschelde J-LJ, 1939
Vardi G, 730
Varga A, 1769
Vassilikos V, 1099
Vatta M, 181
Vavuranakis M, 1075
Veglia F, 1484
Velon S, 1839
Verhaaren H, 1219
VerLee P, 674, 681
VerLee PN, 1471
Versaci F, 216
Viitasalo M, 494, 823, 2035
Villaneuva FS, 177
Virion JM, 113
Virmani R, 468, 760
Vitale DF, 810
Voci P, 428
vom Dahl J, 33
Voth E, 1005
Vouhé P, 866
Vuillaumier-Barrot S, 830

Wagner R, 1005
Waigand J, 25
Waldecker B, 402
Wallace AA, 876
Wallenstein S, 663
Wallentin L, 1413
Wallner K, 871
Wang Y, 1388
Ward ME, 1435
Warnica JW, 106
Watanabe T, 1644
Watkins MW, 674, 681, 1471
Weaver WD, 1963
Webb JG, 468
Webber BJ, 62
Webber SA, 2105
Webb-Peploe MM, 25
Webel RR, 106
Wegscheider K, 25, 966, 1560
Weil MH, 815
Weinberg A, 1807
Weinberg EO, 264
Weinberger MH, 1360
Weiner B, 461
Weinert L, 409
Weinstein MC, 768
Weintraub WS, 1061
Weissman NJ, 2088
Welch PJ, 621
Wellens HJ, 389
Welsch MA, 1170
Wennberg DE, 674, 681, 1471
Werf FV, 1403
Wernovsky G, 1637
Werns SW, 692
Wesley MN, 55
Westendorp RGJ, 1176
Westheim AS, 1794
Wettrell G, 1813
Wharton JM, 1595
White HD, 62
Whitlow P, 468
Whitlow PL, 1750
Wiedermann CJ, 1975
Wijns W, 1939
Wilkoff BL, 2031
Willeit J, 1975
Williams DO, 698
Williams JM, 545
Williams KA, 420
Williams L, 768
Williams WG, 545
Wilmink HW, 140
Wilson JR, 1802
Winkelman JW, 739
Winning J, 1427
Wöhrle J, 722
Wolpert C, 363
Wong Y-k, 1435
Woo KS, 1522, 2002
Wood MA, 1587
Wray A, 837
Wu D, 998
Wu H, 707
Wybenga DR, 739

Yamada J, 255
Yamada K, 233
Yamaguchi H, 815
Yamaguchi T, 1028
Yamamuro A, 90
Yamano M, 532
Yamashiro K, 374
Yano M, 255
Yao Q, 325, 1111
Yarzebski J, 1378
Yasu T, 578
Yasue H, 146, 983
Yee G, 2061
Yeung LYC, 1522
Yip G, 1522
Yohe MA, 1831
Yokoyama M, 374
Yonemochi H, 211
Yoshida K, 90
Yoshikawa J, 90
Yoshimura M, 983
Yoshinaga K, 1443
Young JB, 618, 2068
Yousefi P, 760

Zannad F, 113
Zedda N, 122, 1193
Zeymer U, 966
Zhang B, 1443
Zhu J, 1738
Ziegler S, 1036
Ziegler T, 448
Zipes DP, 959
Zoghbi WA, 1123
Zohlnhöfer D, 1420
ZOLL Investigators, 1595
Zrenner B, 2051
Zueco J, 1498

Journal of the American College of Cardiology
© 1999 by the American College of Cardiology
Published by Elsevier Science Inc.

Vol. 34, No. 7, 1999
ISSN 0735-1097/99/$20.00
PII S0735-1097(99)00569-0

Subject Index: Volume 34

abciximab
Influence of abciximab use on clinical outcome after aortocoronary vein graft intervention, 1163
Ablation procedures
Detection of myocardial injury during radiofrequency catheter ablation by measuring serum cardiac troponin I levels: procedural correlates, 1099
Gated blood-pool SPECT evaluation of changes after radiofrequency catheter ablation of accessory pathways: evidence for persistent ventricular preexcitation despite successful therapy, 1839
Academic medical centers
Going, going . . . gone (Editor's page), 1228
ACC
See also AHA/ACC Scientific Statement
Results from late-breaking clinical trials sessions at ACCIS '99 and ACC '99, 1
ACC news
ACC Committee appointments, 296
Newly elected members of the College, 1847
President's page: ACC Annual Scientific Session—a new meeting for a new millennium, 1655
President's page: great circle: a target for better patient care, 294
President's page: Integrating the Internet into your practice, 2139
President's page: meeting improvement: a guide to preparation of "slides" for presentation, 887
President's page: performance measures and our "art," 1229
President's page: what is advocacy doing for us? What can we do?, 607
ACC Training Statement
American College of Cardiology Training Statement of Recommendations for the Structure of an Optimal Adult Interventional Cardiology Training Program: A Report of the American College of Cardiology Task Force on Clinical Expert Consensus Documents, 2141
ACC/AHA Practice Guidelines
1999 update: ACC/AHA Practice Guidelines for the Management of Patients with Acute Myocardial Infarction: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Management of Acute Myocardial Infarction), 890
ACC/AHA Guidelines for Coronary artery bypass graft surgery: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee to Revise the 1991 Guidelines for Coronary Artery Bypass Graft Surgery), 1262
Accessory pathways
Gated blood-pool SPECT evaluation of changes after radiofrequency catheter ablation of accessory pathways: evidence for persistent ventricular preexcitation despite successful therapy, 1839
ACCIS
Results from late-breaking clinical trials sessions at ACCIS '99 and ACC '99, 1
Accountability
President's page: performance measures and our "art," 1229
Acetylsalicylate
Effect of acetylsalicylate on cardiac and muscular pain induced by intracoronary and intra-arterial infusion of bradykinin in humans, 216
Action potentials
Double component action potentials in the posterior approach to the atrioventricular node: do they reflect activation delay in the slow pathway?, 570
Acute coronary syndromes
Cardiac troponin I levels and clinical outcomes in patients with acute coronary syndromes: the potential role of early percutaneous revascularization, 1704
Risk stratification of emergency department patients with acute coronary syndromes using P-selectin, 95
Thrombin generation after the abrupt cessation of intravenous unfractionated heparin among patients with acute coronary syndromes: potential mechanisms for heightened prothrombotic potential, 1020
Acute phase reactants
Enhanced inflammatory response in patients with preinfarction unstable angina, 1696
Preprocedural serum levels of C-reactive protein predicts early complications and late restenosis after coronary angioplasty, 1512
Adenosine
Adenosine as an adjunct to thrombolytic therapy for acute myocardial infarction: results of a multicenter, randomized, placebo-controlled trial: the Acute Myocardial Infarction STudy of ADenosine (AMISTAD) trial, 1711
Contrast-enhanced transthoracic second harmonic echo Doppler with adenosine: a noninvasive, rapid and effective method for coronary flow reserve assessment, 122
Simultaneous intracoronary velocity- and pressure-derived assessment of adenosine-induced collateral hemodynamics in patients with one- to two-vessel coronary artery disease, 1985
Adenylyl cyclase
Desensitization of the pulmonary adenylyl cyclase system: a cause of airway hyperresponsiveness in congestive heart failure, 848
Adherence
Nonadherence with angiotensin-converting enzyme inhibitor therapy: a comparison of different ways of measuring it in patients with chronic heart failure, 2072
Adhesion molecules
Evaluation of serum levels of solubilized adhesion molecules and cytokine receptors on coronary heart disease, 1995
Adrenergic stimulation
Desensitization of the pulmonary adenylyl cyclase system: a cause of airway hyperresponsiveness in congestive heart failure, 848
Adult cardiology
Training programs in the United States, in adult cardiology, pediatric cardiology, and cardiothoracic surgery, and post-fellowship training (Preceptorships) in adult cardiology, 1231
Advocacy Division
President's page: what is advocacy doing for us? What can we do?, 607
Afterload
Influence of low afterload on the nature of the stress-velocity relationship, 1219
Age factors
See also Elderly
Repairing tetralogy of Fallot—does age matter? (letter), 1657
AHA
See also ACC/AHA Practice Guidelines
AHA/ACC Scientific Statement
Assessment of cardiovascular risk by use of multiple-risk-factor assessment equations: A Statement for Healthcare Professionals from The American Heart Association and The American College of Cardiology, 1348
Albuterol
Photoplethysmographic assessment of pulse wave reflection: blunted response to endothelium-dependent beta2-adrenergic vasodilation in type II diabetes mellitus, 2007
American College of Cardiology
See ACC
American Heart Association
See ACC/AHA Practice Guidelines; AHA
Amiodarone
Intravenous amiodarone for the prevention of atrial fibrillation after open heart surgery: the Amiodarone Reduction in Coronary Heart (ARCH) trial, 343
Aneurysm
Exercise-induced myocardial ischemia in isolated coronary artery ectasias and aneurysms ("dilated coronaropathy"), 1461
Angina pectoris
See also Antianginal therapy; Syndrome X
Angina pectoris: myocardial infarction and verapamil (letter), 957
Angiographic morphology and the pathogenesis of unstable angina pectoris (historical article), 1854
Catheter-based percutaneous myocardial laser revascularization in patients with end-stage coronary artery disease, 1663
Changes of hemostasis, endogenous fibrinolysis, platelet activation and endothelins after percutaneous transluminal coronary angioplasty in patients with stable angina, 486
Clinical practice guidelines in unstable angina improves clinical outcomes by assuring early intensive medical treatment, 1689
Comparison of stress/rest myocardial perfusion tomography, dipyridamole and dobutamine stress echocardiography for the detection of coronary disease in hypertensive patients with chest pain and positive exercise test, 441
Elevated endothelin concentrations are associated with reduced coronary vasomotor responses in patients with chest pain and normal coronary arteriograms, 455

Enhanced inflammatory response in patients with preinfarction unstable angina, 1696
Evidence for the delayed effect of human ischemic preconditioning: prospective multicenter study for preconditioning in acute myocardial infarction, 1966
Myocardial perfusion and oxygen consumption in reperfused noninfarcted dysfunctional myocardium after unstable angina: direct evidence for myocardial stunning in humans, 1939
Relationship of extent of revascularization with angina at one year in the Bypass Angioplasty Revascularization Investigation (BARI), 1750
Six-month outcome in unstable angina patients without previous myocardial infarction according to the use of tertiary cardiologic resources, 1947
ST-segment monitoring with continuous 12-lead ECG improves risk stratification in patients with chest pain and ECG nondiagnostic of acute myocardial infarction, 1413
Tunnel at the end of the light (editorial comment), 1671

Angiography
See also Cardiac catheterization
Does angiography six months after coronary intervention influence management and outcome?, 1507
Double-oblique free-breathing high resolution three-dimensional coronary magnetic resonance angiography, 524
Milking in hypertrophic cardiomyopathy (letter), 949
One-year follow-up after intravascular ultrasound assessment of moderate left main coronary artery disease in patients with ambiguous angiograms, 707
Periprocedural quantitative coronary angiography after Palmaz-Schatz stent implantation predicts the restenosis rate at six months: results of a metaanalysis of the Belgian Netherlands Stent Study (BENESTENT) I, BENESTENT II Pilot, BENESTENT II and MUSIC Trials, 1067
Renal effect of low-dose dopamine in high-risk patients undergoing coronary angiography, 1682

Angioplasty
See also Percutaneous coronary interventions; Restenosis
Bradykinin-induced preconditioning in patients undergoing coronary angioplasty, 639
Changes of hemostasis, endogenous fibrinolysis, platelet activation and endothelins after percutaneous transluminal coronary angioplasty in patients with stable angina, 486
Combination therapy for acute myocardial infarction (editorial comment), 1963
Does angiography six months after coronary intervention influence management and outcome?, 1507
Early recovery of coronary flow reserve after stent implantation as assessed by positron emission tomography, 1036
Economic impact of GPIIb/IIIa blockade after high-risk angioplasty: results from the RESTORE trial, 1061
Effects of adjunctive balloon angioplasty after intravascular ultrasound-guided optimal directional coronary atherectomy: the results of Adjunctive Balloon Angioplasty After Coronary Atherectomy Study (ABACAS), 1028
Heparin after percutaneous intervention (HAPI): a prospective multicenter randomized trial of three heparin regimens after successful coronary intervention, 461
Hyperemic coronary flow after optimized intravascular ultrasound-guided balloon angioplasty and stent implantation, 1899
Laser angioplasty of restenosed coronary stents: results of a multicenter surveillance trial, 25
Long-term endothelial dysfunction after coronary artery stenting, 1675
Mechanisms of acute lumen gain and recurrent restenosis after rotational atherectomy of diffuse in-stent restenosis: a quantitative angiographic and intravascular ultrasound study, 33
Myocardial perfusion and oxygen consumption in reperfused noninfarcted dysfunctional myocardium after unstable angina: direct evidence for myocardial stunning in humans, 1939
Nuclear cardiology after angioplasty and stent placement: beyond sensitivity and specificity (editorial comment), 1042
Optimal balloon angioplasty versus elective stent implantation (editorial comment), 1907
Percutaneous transluminal coronary angioplasty: report from the registry of the National Heart, Lung, and Blood Institute (historical article), 615
Randomized comparison of coronary stent implantation and balloon angioplasty in the treatment of de novo coronary artery lesions (START): a four-year follow-up, 1498
Randomized trial comparing primary angioplasty with a strategy of short-acting thrombolysis and immediate planned rescue angioplasty in acute myocardial infarction: the PACT trial, 1954
Relationship of extent of revascularization with angina at one year in the Bypass Angioplasty Revascularization Investigation (BARI), 1750
Restenosis, late vessel occlusion and left ventricular function six months after balloon angioplasty in diabetic patients, 476
Short- and long-term evolution of unstented nonocclusive coronary dissection after coronary angioplasty, 1484
Significance of persistent ST elevation versus early resolution of ST segment elevation after primary PTCA, 1932
Validation of risk adjustment models for in-hospital percutaneous transluminal coronary angioplasty mortality on an independent data set, 692
When should we start randomized trials for new devices? (editorial comment), 1049

Angiotensin-converting enzyme inhibitors
See also specific agent
Angiotensin I-converting enzyme and plasminogen activator inhibitor-1 gene variants: risk of mortality and fatal cardiovascular disease in an elderly population-based cohort, 1176
Angiotensin-converting enzyme inhibitors and cytokines in heart failure: dose and effect? (editorial comment), 2068
Effect of angiotensin-converting enzyme inhibition and angiotensin II type-I receptor antagonism on postprandial endothelial function, 140
Effect of high- versus low dose angiotensin converting enzyme inhibition on cytokine levels in chronic heart failure, 2061
Nonadherence with angiotensin-converting enzyme inhibitor therapy: a comparison of different ways of measuring it in patients with chronic heart failure, 2072

Angiotensin I converting enzyme
Deletion genotype of the angiotensin I-converting enzyme is associated with an increased vascular reactivity in vivo and in vitro, 830

Angiotensin receptor activation
Myocardial salvage: AT1-receptor blockade, AT2-receptor activation and coronary collaterals (letter), 310

Angiotensin receptor antagonists
Effect of angiotensin-converting enzyme inhibition and angiotensin II type-I receptor antagonism on postprandial endothelial function, 140
Myocardial salvage: AT1-receptor blockade, AT2-receptor activation and coronary collaterals (letter), 310

Angiotensinogen gene
Angiotensinogen gene M235T polymorphism, predicts left ventricular hypertrophy in endurance athletes, 494

Antianginal therapy
Effects of medical therapy on outcome assessment using exercise thallium-201 single photon emission computed tomography imaging: evidence of a protective effect of beta-blocking antianginal medication, 113

Antiarrhythmic drug therapy
See also specific agent; specific type of agent
Causes of death in the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 1552
Familial polymorphic ventricular arrhythmias: a quarter century of successful medical treatment based on serial exercise-pharmacologic testing, 2015
Learning more about indications for implantable cardioverter-defibrillator (editorial comment), 1096
Relative effectiveness of the implantable cardioverter-defibrillator and antiarrhythmic drugs in patients with varying degrees of left ventricular dysfunction who have survived malignant ventricular arrhythmias, 1090

Antihypertensive therapy
Outcome studies—are all antihypertensive drugs created equal? (Viewpoint), 1652

Antioxidants
Antioxidant vitamins: sorting out the good and the not so good (editorial comment), 1216
Differential effects of α- and γ-tocopherol on low-density lipoprotein oxidation, superoxide activity, platelet aggregation and arterial thrombogenesis, 1208

Antiplatelet agents
See also specific agent
Clopidogrel as an adjunctive antiplatelet therapy during coronary stenting, 1884

Aortic debris
See Debris

Aortic valve disease
Natural history of aortic and mitral valve disease (historical article), 315

Apnea
See Sleep apnea

Apoptosis
Calcium channel blockers, apoptosis, and cancer: is there a biologic relationship?, 1857
Myocardial cell death in fibrillating and dilated human atria, 1577

Arrhythmias
Electrical storm in patients with transvenous implantable cardioverter-defibrillator (letter), 950
Sudden death, arrhythmic events and measurement of heart rate variability (letter), 2148

Arrhythmias, atrial
Computer-assisted animation of atrial

tachyarrhythmias recorded with a 64-electrode basket catheter, 2051

Arrhythmias, ventricular
Arrhythmia recurrence in patients with a healed myocardial infarction who received an implantable defibrillator: analysis according to the clinical presentation, 351
Beta-blockers—a forgotten antiventricular tachyfibrillation drug class? (letter), 952
Causes of death in the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 1552
Circadian variation of malignant ventricular arrhythmias in patients with ischemic and nonischemic heart disease after cardioverter defibrillator implantation, 1560
EXP3174, the AII antagonist human metabolite of losartan, but not losartan nor the angiotensin-converting enzyme inhibitor captopril, prevents the development of lethal ischemic ventricular arrhythmias in a canine model of recent myocardial infarction, 876
Familial polymorphic ventricular arrhythmias: a quarter century of successful medical treatment based on serial exercise-pharmacologic testing, 2015
In-hospital versus out-of-hospital presentation of life-threatening ventricular arrhythmias predicts survival: results from the AVID Registry, 1111
Management of ventricular arrhythmias: a trial-based approach, 621
Relative effectiveness of the implantable cardioverter-defibrillator and antiarrhythmic drugs in patients with varying degrees of left ventricular dysfunction who have survived malignant ventricular arrhythmias, 1090

Arteriography
Elevated endothelin concentrations are associated with reduced coronary vasomotor responses in patients with chest pain and normal coronary arteriograms, 455

Aspirin
See also Acetylsalicylate
Clopidogrel an an adjunctive antiplatelet therapy during coronary stenting, 1884
Effect of aspirin and ifetroban on skeletal muscle blood flow in patients with congestive heart failure treated with enalapril, 170

Asthma
Desensitization of the pulmonary adenylyl cyclase system: a cause of airway hyperresponsiveness in congestive heart failure, 848

Atherectomy
Effects of adjunctive balloon angioplasty after intravascular ultrasound-guided optimal directional coronary atherectomy: the results of Adjunctive Balloon Angioplasty After Coronary Atherectomy Study (ABACAS), 1028
Final results of the STent versus Directional Coronary Atherectomy Randomized Trial (START), 1050
Long-term endothelial dysfunction after coronary artery stenting, 1675
Mechanisms of acute lumen gain and recurrent restenosis after rotational atherectomy of diffuse in-stent restenosis: a quantitative angiographic and intravascular ultrasound study, 33
When should we start randomized trials for new devices? (editorial comment), 1049

Atherosclerosis
Arterial remodeling in the left coronary system: the role of high-density lipoprotein cholesterol, 760
Association of endotoxemia with carotid atherosclerosis and cardiovascular disease: prospective results from the Bruneck study, 1975
Creatine kinase-MB elevation after coronary intervention correlates with diffuse atherosclerosis, and low-to-medium level elevation has a benign clinical course: implication for early discharge after coronary intervention, 663
Cytomegalovirus in the pathogenesis of atherosclerosis: the role of inflammation as reflected by elevated C-reactive protein levels, 1738
Endotoxin: another phantom menace? (editorial comment), 1982
Hyperglycemia rapidly suppresses flow-mediated endothelium-dependent vasodilation in brachial artery, 146
Pravastatin prevents clinical events in revascularized patients with average cholesterol concentrations, 106
Racial differences in the significance of coronary calcium in asymptomatic black and white subjects with coronary risk factors, 787

Athletes
Angiotensinogen gene M235T polymorphism, predicts left ventricular hypertrophy in endurance athletes, 494

Atrial appendage
Echocardiographic assessment of the left atrial appendage, 1867

Atrial arrhythmias
See Arrhythmias, atrial

Atrial fibrillation, flutter
Alterations in cardiac sarcoplasmic reticulum Ca^{2+} regulatory protein in the atrial tissue of patients with atrial fibrillation, 255
Atrial arrhythmias after cardiac surgery: Sisyphus revisited? (editorial comment), 348
Exaggerated QT prolongation after cardioversion of atrial fibrillation, 396
Intravenous amiodarone for the prevention of atrial fibrillation after open heart surgery: the Amiodarone Reduction in Coronary Heart (ARCH) trial, 343
Marked reduction in atrial defibrillation thresholds with repeated internal cardioversion, 1569
Mitral balloon valvotomy for patients with mitral stenosis in atrial fibrillation: immediate and long-term results, 1145
Prevention of postoperative atrial fibrillation: what is the best approach? (editorial comment), 340

Atrial fibrillation/flutter
Atrial defibrillation with a transvenous lead: a randomized comparison of active can shocking pathways, 358
Higher energy synchronized external direct current cardioversion for refractory atrial fibrillation, 2031
Myocardial cell death in fibrillating and dilated human atria, 1577
Oral *d,l* sotalol reduces the incidence of postoperative atrial fibrillation in coronary artery bypass surgery patients: a randomized, double-blind, placebo-controlled study, 334
Pretreatment with verapamil in patients with persistent or chronic atrial fibrillation who underwent electrical cardioversion, 810
Transverse conduction capabilities of the crista terminalis in patients with atrial flutter and atrial fibrillation, 363
Ventricular rate control during atrial fibrillation by cardiac parasympathetic nerve stimulation: a transvenous approach, 2042

Atrial function
Changes in left ventricular filling and left atrial function six months after nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy, 1123
Noninvasive assessment of left atrial maximum dP/dt by a combination of transmitral and pulmonary venous flow, 795

Atrial pressure
Pulmonary venous systolic flow pulse—its origin and relationship to left atrial pressure, 802

Atrial septal defect
Hypoplastic left heart syndrome with intact atrial septum: atrial morphology, pulmonary vascular histopathology and outcome, 554
Validation of the accuracy of both right and left ventricular outflow volume determination and semiautomated calculation of shunt volumes through the atrial septal defects by digital color Doppler flow mapping in a chronic animal model, 587

Atrioventricular block
See Heart block

Atrioventricular node
Double component action potentials in the posterior approach to the atrioventricular node: do they reflect activation delay in the slow pathway?, 570

Autonomic nervous system
Time-varying spectral analysis of heart rate and left ventricular pressure variability during balloon coronary occlusion in humans: a sympathoexcitatory response to myocardial ischemia, 1924

AVID trial
Causes of death in the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 1552

Baroreflex sensitivity
Noninvasive assessment of the cardiac baroreflex response to downward tilting and comparison with the phenylephrine method, 211

Beraprost sodium
Effect of orally active prostacyclin analogue on survival of outpatients with primary pulmonary hypertension, 1188

Beta-adrenergic blocking agents
See also specific agent
Beta-blocker therapy for secondary prevention of myocardial infarction in elderly diabetic patients: results from the National Cooperative Cardiovascular Project, 1388
Beta-blocker use and survival in patients with ventricular fibrillation or symptomatic ventricular tachycardia: the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 325
Beta-blockers—a forgotten antiventricular tachyfibrillation drug class? (letter), 952
Cohort study of childhood hypertrophic cardiomyopathy: improved survival following high-dose beta-adrenoceptor antagonist treatment, 1813
Effects of medical therapy on outcome assessment using exercise thallium-201 single photon emission computed tomography imaging: evidence of a protective effect of beta-blocking antianginal medications, 113

Beta-adrenergic receptor agonists
Beta-adrenergic receptor agonists and cyclic nucleotide phosphodiesterase inhibitors: shifting the focus from inotropy to cyclic adenosine monophosphate, 318

JACC Vol. 34, No. 7, 1999
December 1999:2157–75

Beta-adrenergic receptor antibodies
Activating beta-1-adrenoceptor antibodies are not associated with cardiomyopathies secondary to valvular or hypertensive heart disease, 1545
Bias
See Reader bias
Biopsy
See Endomyocardial biopsy
Blood flow
See also Collateral vessels; Microcirculation
Determinants of coronary blood flow after thrombolytic administration, 1403
Effect of aspirin and ifetroban on skeletal muscle blood flow in patients with congestive heart failure treated with enalapril, 170
Hyperemic coronary flow after optimized intravascular ultrasound-guided balloon angioplasty and stent implantation, 1899
Impaired coronary blood flow in nonculprit arteries in the setting of acute myocardial infarction, 974
Improvement of myocardial blood flow to ischemic regions by angiotensin-converting enzyme inhibition with quinaprilat IV: a study using [^{15}O] water dobutamine stress positron emission tomography, 1005
Noninvasive assessment of left atrial maximum dP/dt by a combination of transmitral and pulmonary venous flow, 795
Noninvasive evaluation of pulmonary capillary wedge pressure in patients with acute myocardial infarction by deceleration time of pulmonary venous flow velocity in diastole, 90
Pulmonary venous systolic flow pulse—its origin and relationship to left atrial pressure, 802
Significance of persistent ST elevation versus early resolution of ST segment elevation after primary PTCA, 1932
Survival 12 years after randomization to streptokinase: the influence of Thrombolysis in Myocardial Infarction flow at three to four weeks, 62
Blood pressure
See also Hypertension
Delayed systolic blood pressure recovery after graded exercise: an independent correlate of angiographic coronary disease, 754
Body mass
Association of body mass, gender and race with heart failure primarily due to hypertension, 1602
Bradykinin
Bradykinin-induced preconditioning in patients undergoing coronary angioplasty, 639
Effect of acetylsalicylate on cardiac and muscular pain induced by intracoronary and intra-arterial infusion of bradykinin in humans, 216
Brain natriuretic peptide
Sustained hemodynamic effects of an infusion of nesiritide (human type natriuretic peptide) in heart failure: a randomized, double-blind, placebo-controlled clinical trial, 155
Bridging
See Myocardial bridging

C-reactive protein
Cytomegalovirus in the pathogenesis of atherosclerosis: the role of inflammation as reflected by elevated C-reactive protein levels, 1738
Preprocedural serum levels of C-reactive protein predicts early complications and late restenosis after coronary angioplasty, 1512
Calcium, calcification
Independent and incremental value of coronary artery calcium for predicting the extent of angiographic coronary artery disease: comparison with risk factors and radionuclide perfusion, 777
Is electron beam computed tomography the sole detection method for coronary calcium? (letter), 611
Racial differences in the significance of coronary calcium in asymptomatic black and white subjects with coronary risk factors, 787
Calcium channel blocking agents
Calcium channel blockers, apoptosis, and cancer: is there a biologic relationship?, 1857
Calcium regulatory proteins
Alterations in cardiac sarcoplasmic reticulum Ca^{2+} regulatory protein in the atrial tissue of patients with atrial fibrillation, 255
Call to action
Hypertension detection, treatment and control: a call to action for cardiovascular specialists, 1360
Canada
Catheterization after myocardial infarction and the mismeasure of un-American inactivity, (editorial comment), 23
Comparing the U.S. and Canadian approaches to coronary angiography: what have we learned (editorial comment)?, 20
Comparison of U.S. and Canadian cardiac catheterization practices in detecting severe coronary artery disease after myocardial infarction: efficiency, yield and long-term implications, 12
Cancer
Calcium channel blockers, apoptosis, and cancer: is there a biologic relationship?, 1857
Candoxatril
Hemodynamic and neuroendocrine effects for Candoxatril and frusemide in mild stable chronic heart failure, 1794
Captopril
EXP3174, the AII antagonist human metabolite of losartan, but not losartan nor the angiotensin-converting enzyme inhibitor captopril, prevents the development of lethal ischemic ventricular arrhythmias in a canine model of recent myocardial infarction, 876
Cardiac catheterization
See also Angiography
Catheterization after myocardial infarction and the mismeasure of un-American inactivity, (editorial comment), 23
Comparing the U.S. and Canadian approaches to coronary angiography: what have we learned (editorial comment)?, 20
Comparison of U.S. and Canadian cardiac catheterization practices in detecting severe coronary artery disease after myocardial infarction: efficiency, yield and long-term implications, 12
Cardiac conduction
Double component action potentials in the posterior approach to the atrioventricular node: do they reflect activation delay in the slow pathway?, 570
Transverse conduction capabilities of the crista terminalis in patients with atrial flutter and atrial fibrillation, 363
Cardiac output
Effects of chronic prostacyclin therapy on cardiac output and symptoms in primary pulmonary hypertension, 1184
Cardiac rupture
See Myocardial rupture
Cardiac transplantation
See Heart transplantation
Cardiomyocytes
See Myocytes
Cardiomyopathy
See also Hypertrophy
Abnormal cardiac function in the streptozotocin-induced non–insulin-dependent diabetic rat: noninvasive assessment with Doppler echocardiography and contribution of the nitric oxide pathway, 2110
Activating beta-1-adrenoceptor antibodies are not associated with cardiomyopathies secondary to valvular or hypertensive heart disease, 1545
Changes in left ventricular filling and left atrial function six months after nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy, 1123
Clinical profiles of four large pedigrees with familial dilated cardiomyopathy: preliminary recommendations for clinical practice, 837
Cohort study of childhood hypertrophic cardiomyopathy: improved survival following high-dose beta-adrenoceptor antagonist treatment, 1813
Comparison of dual-chamber pacing versus septal myectomy for the treatment of patients with hypertrophic obstructive cardiomyopathy: a comparison of objective hemodynamic and exercise end-points, 191
Detection of viral genotypes by polymerase chain reaction in the myocardium of pediatric patients with advanced HIV disease, 857
Determinant of microvolt-level T-wave alternans in patients with dilated cardiomyopathy, 374
Electromechanical left ventricular behavior after nonsurgical septal reduction in patients with hypertrophic obstructive cardiomyopathy, 1117
Familial dilated cardiomyopathy: evidence for genetic and phenotypic heterogeneity, 181
Intravenous immune globulin in the therapy of peripartum cardiomyopathy, 177
Is electron beam computed tomography the sole detection method for coronary calcium? (letter), 611
Milking in hypertrophic cardiomyopathy (letter), 949
Myocardial contractile reserve on dobutamine echocardiography predicts late spontaneous improvement in cardiac function in patients with recent onset idiopathic dilated cardiomyopathy, 1537
Cardiovascular disease
Angiotensin I-converting enzyme and plasminogen activator inhibitor-1 gene variants: risk of mortality and fatal cardiovascular disease in an elderly population-based cohort, 1176
Association of endotoxemia with carotid atherosclerosis and cardiovascular disease: prospective results from the Bruneck study, 1975
Hormone replacement therapy in postmenopausal women protects against smoking-induced changes in vascular structure and function, 131
Postmenopausal hormone therapy—good for smokers? (editorial comment), 138
Cardioversion
Exaggerated QT prolongation after cardioversion of atrial fibrillation, 396
Higher energy synchronized external direct current cardioversion for refractory atrial fibrillation, 2031
Marked reduction in atrial defibrillation thresholds with repeated internal cardioversion, 1569
Pretreatment with verapamil in patients with persistent or chronic atrial fibrillation who underwent electrical cardioversion, 810

Cardioverter-defibrillator
Causes of death in the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 1552
Circadian variation of malignant ventricular arrhythmias in patients with ischemic and nonischemic heart disease after cardioverter defibrillator implantation, 1560
Detection of myocardial injury during transvenous implantation of automatic cardioverter-defibrillator, 402
Electrical storm in patients with transvenous implantable cardioverter-defibrillator (letter), 950
Learning more about indications for implantable cardioverter-defibrillator (editorial comment), 1096
Long-term outcome of patients with unexplained syncope treated with an electrophysiologic-guided approach in the implantable cardioverter-defibrillator era, 1082
Relative effectiveness of the implantable cardioverter-defibrillator and antiarrhythmic drugs in patients with varying degrees of left ventricular dysfunction who have survived malignant ventricular arrhythmias, 1090
Shocks as predictors of survival in patients with transplantable cardioverter-defibrillators, 204
Carnitine
European multicenter study on propionyl-L-carnitine in intermittent claudication, 1618
Carotid artery disease
Association of endotoxemia with carotid atherosclerosis and cardiovascular disease: prospective results from the Bruneck study, 1975
Carotid sinus hypersensitivity
Diagnostic utility of mechanical, pharmacological and orthostatic stimulation of the carotid sinus in patients with unexplained syncope, 1587
Carvedilol
Beta-blockade in heart failure: a comparison of carvedilol and metoprolol, 1522
Carvedilol in class IV heart failure (letter), 2149
Catheter
Aortic debris and coronary guiding catheters (letter), 312
Catheter-based myocardial gene transfer utilizing nonfluoroscopic electromechanical left ventricular mapping, 246
Catheter-based percutaneous myocardial laser revascularization in patients with end-stage coronary artery disease, 1663
Computer-assisted animation of atrial tachyarrhythmias recorded with a 64-electrode basket catheter, 2051
Detection of myocardial injury during radiofrequency catheter ablation by measuring serum cardiac troponin I levels: procedural correlates, 1099
Gated blood-pool SPECT evaluation of changes after radiofrequency catheter ablation of accessory pathways: evidence for persistent ventricular preexcitation despite successful therapy, 1839
Catheterization
See Cardiac catheterization
Chest pain
See Angina pectoris
Chlamydia pneumoniae
Chlamydia pneumoniae in redo and first-time coronary artery bypass grafting (letter), 953
Chlamydia pneumoniae infection and coronary artery disease (editorial comment), 1440
Circulating *Chlamydia pneumoniae* DNA as a function of coronary artery disease, 1435
Cholesterol
See also Hypercholesterolemia; Lipoproteins
How much to lower serum cholesterol: is it the wrong question? (viewpoint), 289
Pravastatin prevents clinical events in revascularized patients with average cholesterol concentrations, 106
Relative influence of secondary versus primary prevention using the National Cholesterol Education Program Adult Treatment Panel II guidelines, 768
Chromosome abnormalities
Arrhythmic disorder mapped to chromosome 1q42–q43 causes malignant polymorphic ventricular tachycardia in structurally normal hearts, 2035
Circadian variation
Circadian variation of malignant ventricular arrhythmias in patients with ischemic and nonischemic heart disease after cardioverter defibrillator implantation, 1560
Claudication
European multicenter study on propionyl-L-carnitine in intermittent claudication, 1618
Clinical Trials
See also Randomized trials
Clinical trials
Results from late-breaking clinical trials sessions at ACCIS '99 and ACC '99, 1
Clopidogrel
Clopidogrel as an adjunctive antiplatelet therapy during coronary stenting, 1884
Clopidogrel versus ticlopidine after intracoronary stent placement, 1891
Use of clopidogrel in coronary stenting: what was the question? (editorial comment), 1895
Coarctation of the aorta
New strategy for the surgical treatment of aortic coarctation associated with ventricular septal defect in infants using an absorbable pulmonary artery band, 866
Collateral vessels
Modulation of left ventricular diastolic distensibility by collateral flow recruitment during balloon coronary occlusion, 500
Myocardial salvage: AT_1-receptor blockade, AT_2-receptor activation and coronary collaterals (letter), 310
Simultaneous intracoronary velocity- and pressure-derived assessment of adenosine-induced collateral hemodynamics in patients with one- to two-vessel coronary artery disease, 1985
Color kinesis images
Objective evaluation of regional left ventricular wall motion during dobutamine stress echocardiographic studies using segmental analysis of color kinesis images, 409
Compliance
See Adherence
Computed tomography
See also Thallium-201 studies
Gated blood-pool SPECT evaluation of changes after radiofrequency catheter ablation of accessory pathways: evidence for persistent ventricular preexcitation despite successful therapy, 1839
Increased stress right ventricular activity on dual isotope perfusion SPECT: a sign of multivessel and/or left main coronary artery disease, 420
Incremental value of prognostic testing in patients with known or suspected ischemic heart disease: a basis for optimal utilization of exercise technetium-99m sestamibi myocardial perfusion single-photon emission computed tomography (historical review), 9
Is electron beam computed tomography the sole detection method for coronary calcium? (letter), 611
Computers
See also Internet
Computer-assisted animation of atrial tachyarrhythmias recorded with a 64-electrode basket catheter, 2051
Conduction
See Cardiac conduction
Congenital heart defects
See also Surgery, pediatric; specific defect
Clinical features of isolated noncompaction of the ventricular myocardium: long-term clinical course, hemodynamic properties, and genetic background, 233
Eisenmenger syndrome in adults: ventricular septal defect, truncus arteriosus, univentricular heart, 223
Gated blood-pool SPECT evaluation of changes after radiofrequency catheter ablation of accessory pathways: evidence for persistent ventricular preexcitation despite successful therapy, 1839
Hypoplastic left heart syndrome with intact atrial septum: atrial morphology, pulmonary vascular histopathology and outcome, 554
Impact of early ventricular unloading on exercise performance in preadolescents with single ventricle Fontan physiology, 1637
Remote telemedical interpretation of neonatal echocardiograms: impact on clinical management in a primary care setting, 241
Congestive heart failure
See Heart failure
Continuous positive air pressure
Nocturnal ischemic events in patients with obstructive sleep apnea syndrome and ischemic heart disease: effect of continuous positive air pressure treatment, 1744
Contractile function
Cardiomyocytes from hearts with left ventricular dysfunction after ischemia-reperfusion do not manifest contractile abnormalities, 594
Deletion genotype of the angiotensin I-converting enzyme is associated with an increased vascular reactivity in vivo and in vitro, 830
Influence of low afterload on the nature of the stress-velocity relationship, 1219
Low-level exercise echocardiography detects contractile reserve and predicts reversible dysfunction after acute myocardial infarction: comparison with low-dose dobutamine echocardiography, 989
Myocardial contractile reserve on dobutamine echocardiography predicts late spontaneous improvement in cardiac function in patients with recent onset idiopathic dilated cardiomyopathy, 1537
Prognostic implications of myocardial contractile reserve in patients with coronary artery disease and left ventricular dysfunction, 730
Contrast agents
Flow dynamics of QW7437, a new dodecafluoropentane ultrasound contrast agent, in the microcirculation: microvascular mechanisms for persistent tissue echo enhancement, 578
Coronaropathy
Exercise-induced myocardial ischemia in isolated coronary artery ectasias and aneurysms ("dilated coronaropathy"), 1461

Coronary artery bypass surgery
See Surgery, coronary artery bypass
Coronary artery diameter
Implications of small vessel diameter in patients undergoing percutaneous coronary revascularization, 40
Coronary artery disease
See also Cardiovascular disease; Atherosclerosis
Assessment of cardiovascular risk by use of multiple-risk-factor assessment equations: A Statement for Healthcare Professionals from The American Heart Association and The American College of Cardiology, 1348
Catheter-based percutaneous myocardial laser revascularization in patients with end-stage coronary artery disease, 1663
Chlamydia pneumoniae infection and coronary artery disease (editorial comment), 1440
Circulating *Chlamydia pneumoniae* DNA as a function of coronary artery disease, 1435
Comparison of stress/rest myocardial perfusion tomography, dipyridamole and dobutamine stress echocardiography for the detection of coronary disease in hypertensive patients with chest pain and positive exercise test, 441
Comparison of U.S. and Canadian cardiac catheterization practices in detecting severe coronary artery disease after myocardial infarction: efficiency, yield and long-term implications, 12
Coronary artery distensibility in diabetic patients with simultaneous measurements of luminal area and intracoronary pressure: evidence of impaired reactivity to nitroglycerin, 1075
Coronary Doppler intensity changes during handgrip: a new method to detect coronary vasomotor tone in coronary artery disease, 428
Delayed systolic blood pressure recovery after graded exercise: an independent correlate of angiographic coronary artery disease, 754
Effects of medical therapy on outcome assessment using exercise thallium-201 single photon emission computed tomography imaging: evidence of a protective effect of beta-blocking antianginal medications, 113
Evaluation of serum levels of solubilized adhesion molecules and cytokine receptors on coronary heart disease, 1995
Exercise-induced myocardial ischemia in isolated coronary artery ectasias and aneurysms ("dilated coronaropathy"), 1461
Hyperinsulinemic hypoalphalipoproteinemia as a new indicator for coronary heart disease, 1443
Improvement of left ventricular ejection fraction, heart failure symptoms and prognosis after revascularization in patients with chronic coronary artery disease and viable myocardium detected by dobutamine stress echocardiography, 163
Increased stress right ventricular activity on dual isotope perfusion SPECT: a sign of multivessel and/or left main coronary artery disease, 420
Independent and incremental value of coronary artery calcium for predicting the extent of angiographic coronary artery disease: comparison with risk factors and radionuclide perfusion, 777
Lack of association of a common polymorphism of the plasminogen activator inhibitor-1 gene with coronary artery disease and myocardial infarction, 1778
Long-term outcome of patients with unexplained syncope treated with an electrophysiologic-guided approach in the implantable cardioverter-defibrillator era, 1082
Mechanisms and clinical significance of transient atrioventricular block during dobutamine stress echocardiography, 998
One-year follow-up after intravascular ultrasound assessment of moderate left main coronary artery disease in patients with ambiguous angiograms, 707
Prognostic implications of myocardial contractile reserve in patients with coronary artery disease and left ventricular dysfunction, 730
Prognostic importance of lower extremity arterial disease in patients undergoing coronary revascularization in the Bypass Angioplasty Revascularization Investigation (BARI), 716
Prognostic value of pharmacologic stress echocardiography in patients with known or suspected coronary artery disease: a prospective large-scale, multicenter, head-to-head comparison between dipyridamole and dobutamine test, 1769
Simultaneous intracoronary velocity- and pressure-derived assessment of adenosine-induced collateral hemodynamics in patients with one- to two-vessel coronary artery disease, 1985
Snuff, nicotine and cardiovascular disease: implications for tobacco control (editorial comment), 1791
Winter and cardiovascular mortality (letter), 2150
Coronary artery elasticity
Coronary artery distensibility in diabetic patients with simultaneous measurements of luminal area and intracoronary pressure: evidence of impaired reactivity to nitroglycerin, 1075
Coronary artery geometry
Volumetric remodeling of the proximal left coronary artery: early versus late after heart transplantation, 197
Coronary artery patency
Myoglobin, creatine kinase-MB and cardiac troponin I 60-minute ratios predict infarct-related artery patency after thrombolysis for acute myocardial infarction: results from the Thrombolysis in Myocardial Infarction study (TIMI) 10B, 739
Prediction of functional recovery of viable myocardium after delayed revascularization in postinfarction patients: accuracy of dobutamine stress echocardiography and influence of long-term vessel patency, 1012
Coronary artery remodeling
Arterial remodeling in the left coronary system: the role of high-density lipoprotein cholesterol, 760
Coronary artery spasm
ST elevation secondary to microvascular dysfunction (letter), 312
Coronary blood flow
See Blood flow
Coronary care unit
Treatment of myocardial infarction in a coronary care unit: a two year experience with 250 patients (historical article), 1851
Coronary dissection
Short- and long-term evolution of unstented nonocclusive coronary dissection after coronary angioplasty, 1484
Coronary flow reserve
Contrast-enhanced transthoracic second harmonic echo Doppler with adenosine: a noninvasive, rapid and effective method for coronary flow reserve assessment, 122
Early recovery of coronary flow reserve after stent implantation as assessed by positron emission tomography, 1036
Low-level exercise echocardiography detects contractile reserve and predicts reversible dysfunction after acute myocardial infarction: comparison with low-dose dobutamine echocardiography, 989
Validation of a new noninvasive method (contrast-enhanced transthoracic second harmonic echo Doppler) for the evaluation of coronary flow reserve: comparison with intracoronary Doppler flow wire, 1193
Coronary heart disease
See Coronary artery disease
Coronary occlusion
Modulation of left ventricular diastolic distensibility by collateral flow recruitment during balloon coronary occlusion, 500
Randomized trial of elective stenting after balloon recanalization of chronic total occlusions, 722
Restenosis, late vessel occlusion and left ventricular function six months after balloon angioplasty in diabetic patients, 476
Time-varying spectral analysis of heart rate and left ventricular pressure variability during balloon coronary occlusion in humans: a sympathoexcitatory response to myocardial ischemia, 1924
Value of the electrocardiogram in localizing the occlusion site in the left anterior descending coronary artery in acute anterior myocardial infarction, 389
Coronary perfusion
See Myocardial perfusion
Corrections
ACC/AHA/ACP-ASIM Guidelines for the Management of Patients with Chronic Stable Angina. J Am Coll Cardiol 1999;33:2092–197, 314
Badruddin SM, Ahmad A, Mickelson J, Abukhalil J, Winters WL, Nagueh SF, Zoghbi WA. Supine bicycle versus post-treadmill exercise echocardiography in the detection of myocardial ischemia: a randomized single-blind crossover trial. J Am Coll Cardiol 1999; 33:1485–90, 613
Block PC, Peterson EC, Krone R, Kesler K, Hannan E, O'Connor GT, Detre K. Identification of variables needed to risk adjunct outcomes of coronary interventions: evidence-based guidelines for efficient data collection. J Am Coll Cardiol 1998;32:275–82, 613
Friesinger GC, II. Outcomes research: evaluating the impact of echocardiography in congestive heart failure (editorial comment). J Am Coll Cardiol 1999;33:171–3, 1363
Myers WO, Blackstone EH, Davis K, Foster ED, Kaiser GC, CASS Registry. Long-term surgical survival. J Am Coll Cardiol 1999;33: 448–98, 1363
Zannad F, Briancon S, Julliere Y, Mertes P-M, Villemot J-P, Alla F, Virion J-M, and the EPICAL Investigators. Incidence, clinical and etiologic features, and outcomes of advanced chronic heart failure: the EPICAL Study. J Am Coll Cardiol 1999;33:734–42, 1363
Cost factors
Economic impact of GPIIb/IIIa blockade after high-risk angioplasty: results from the RESTORE trial, 1061
Creatine kinase
Creatine kinase-MB elevation after coronary intervention correlates with diffuse

atherosclerosis, and low-to-medium level elevation has a benign clinical course: implications for early discharge after coronary intervention, 663
Elevation of creatine kinase, MB fraction after elective coronary intervention: a valid surrogate end point of poor late outcome? (editorial comment), 672
Myoglobin, creatine kinase-MB and cardiac troponin I 60-minute ratios predict infarct-related artery patency after thrombolysis for acute myocardial infarction: results from the Thrombolysis in Myocardial Infarction study (TIMI) 10B, 739
Risk stratification of emergency department patients with acute coronary syndromes using P-selectin, 95

Crista terminalis
Transverse conduction capabilities of the crista terminalis in patients with atrial flutter and atrial fibrillation, 363

Cyclic adenosine monophosphate
Beta-adrenergic receptor agonists and cyclic nucleotide phosphodiesterase inhibitors: shifting the focus from inotropy to cyclic adenosine monophosphate, 318

Cyclic nucleotide phosphodiesterase inhibitors
Beta-adrenergic receptor agonists and cyclic nucleotide phosphodiesterase inhibitors: shifting the focus from inotropy to cyclic adenosine monophosphate, 318

Cytokine receptors
Evaluation of serum levels of solubilized adhesion molecules and cytokine receptors on coronary heart disease, 1995

Cytokines
Angiotensin-converting enzyme inhibitors and cytokines in heart failure: dose and effect? (editorial comment), 2068
Effect of high- versus low dose angiotensin converting enzyme inhibition on cytokine levels in chronic heart failure, 2061

Cytomegalovirus
Cytomegalovirus in the pathogenesis of atherosclerosis: the role of inflammation as reflected by elevated C-reactive protein levels, 1738

Debris
Aortic debris and coronary guiding catheters (letter), 312
Retrieval and analysis of particulate debris after saphenous vein graft intervention, 468

Defibrillation
See also Cardioverter-defibrillator
Arrhythmia recurrence in patients with a healed myocardial infarction who received an implantable defibrillator: analysis according to the clinical presentation, 351
Atrial defibrillation with a transvenous lead: a randomized comparison of active can shocking pathways, 358
Beta-blocker use and survival in patients with ventricular fibrillation or symptomatic ventricular tachycardia: the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 325
Comparison of a novel rectilinear biphasic waveform with a damped sine wave monophasic waveform for transthoracic ventricular defibrillation, 1595
Effects of biphasic and conventional monophasic defibrillation on postresuscitation myocardial function, 815
Implantable defibrillator event rates in patients with unexplained syncope and inducible sustained ventricular tachyarrhythmias: a comparison with patients known to have sustained ventricular tachycardia, 2023
Marked reduction in atrial defibrillation thresholds with repeated internal cardioversion, 1569

Dexfenfluramine
Prevalence of valvular regurgitation associated with dexfenfluramine three to five months after discontinuation of treatment, 2088

Diabetes
Abnormal cardiac function in the streptozotocin-induced non–insulin-dependent diabetic rat: noninvasive assessment with Doppler echocardiography and contribution of the nitric oxide pathway, 2110
Beta-blocker therapy for secondary prevention of myocardial infarction in elderly diabetic patients: results from the National Cooperative Cardiovascular Project, 1388
Comparison of troponin T and troponin I as predictors of cardiac events in patients undergoing chronic dialysis at a Veteran's hospital: a pilot study, 448
Coronary artery distensibility in diabetic patients with simultaneous measurements of luminal area and intracoronary pressure: evidence of impaired reactivity to nitroglycerin, 1075
Effect of the angiotensin-converting enzyme inhibitor trandolapril on mortality and morbidity in diabetic patients with left ventricular dysfunction after acute myocardial infarction, 83
Effects of coronary artery bypass grafting using internal mammary arteries for diabetic patients, 532
Hyperglycemia rapidly suppresses flow-mediated endothelium-dependent vasodilation in brachial artery, 146
Photoplethysmographic assessment of pulse wave reflection: blunted response to endothelium-dependent $beta_2$-adrenergic vasodilation in type II diabetes mellitus, 2007
Restenosis, late vessel occlusion and left ventricular function six months after balloon angioplasty in diabetic patients, 476
Sulfonylurea drugs and cardiovascular mortality (letter), 958
Tissue characteristics of restenosis after percutaneous transluminal coronary angioplasty in diabetic patients, 1045

Diagnostic database
Epidemiologic approach to quality assessment in echocardiography diagnosis, 1831

Dialysis
Comparison of troponin T and troponin I as predictors of cardiac events in patients undergoing chronic dialysis at a Veteran's hospital: a pilot study, 448

Diastolic function
Modulation of left ventricular diastolic distensibility by collateral flow recruitment during balloon coronary occlusion, 500
Noninvasive evaluation of pulmonary capillary wedge pressure in patients with acute myocardial infarction by deceleration time of pulmonary venous flow velocity in diastole, 90

Dipyridamole
Comparison of stress/rest myocardial perfusion tomography, dipyridamole and dobutamine stress echocardiography for the detection of coronary disease in hypertensive patients with chest pain and positive exercise test, 441
Prognostic value of pharmacologic stress echocardiography in patients with known or suspected coronary artery disease: a prospective large-scale, multicenter, head-to-head comparison between dipyridamole and dobutamine test, 1769

DNA
Circulating *Chlamydia pneumoniae* DNA as a function of coronary artery disease, 1435

Dobutamine
Comparison of stress/rest myocardial perfusion tomography, dipyridamole and dobutamine stress echocardiography for the detection of coronary disease in hypertensive patients with chest pain and positive exercise test, 441
Improvement of left ventricular ejection fraction, heart failure symptoms and prognosis after revascularization in patients with chronic coronary artery disease and viable myocardium detected by dobutamine stress echocardiography, 163
Improvement of myocardial blood flow to ischemic regions by angiotensin-converting enzyme inhibition with quinaprilat IV: a study using [^{15}O] water dobutamine stress positron emission tomography, 1005
Low-level exercise echocardiography detects contractile reserve and predicts reversible dysfunction after acute myocardial infarction: comparison with low-dose dobutamine echocardiography, 989
Mechanisms and clinical significance of transient atrioventricular block during dobutamine stress echocardiography, 998
Myocardial contractile reserve on dobutamine echocardiography predicts late spontaneous improvement in cardiac function in patients with recent onset idiopathic dilated cardiomyopathy, 1537
Objective evaluation of regional left ventricular wall motion during dobutamine stress echocardiographic studies using segmental analysis of color kinesis images, 409
Prediction of cardiac events after uncomplicated acute myocardial infarction by clinical variables and dobutamine stress test, 435
Prediction of functional recovery of viable myocardium after delayed revascularization in postinfarction patients: accuracy of dobutamine stress echocardiography and influence of long-term vessel patency, 1012
Prognostic value of pharmacologic stress echocardiography in patients with known or suspected coronary artery disease: a prospective large-scale, multicenter, head-to-head comparison between dipyridamole and dobutamine test, 1769

Dofetilide
Exaggerated QT prolongation after cardioversion of atrial fibrillation, 396

Dopamine
Renal effect of low-dose dopamine in high-risk patients undergoing coronary angiography, 1682

Doppler ultrasound
Combined use of pulsed and color M-mode Doppler echocardiography for the estimation of pulmonary capillary wedge pressure: an empirical approach based on an analytical relation, 515
Contrast-enhanced transthoracic second harmonic echo Doppler with adenosine: a noninvasive,

rapid and effective method for coronary flow reserve assessment, 122
Coronary Doppler intensity changes during handgrip: a new method to detect coronary vasomotor tone in coronary artery disease, 428
Progression of mitral regurgitation: a prospective Doppler echocardiographic study, 1137
Validation of a new noninvasive method (contrast-enhanced transthoracic second harmonic echo Doppler) for the evaluation of coronary flow reserve: comparison with intracoronary Doppler flow wire, 1193
Validation of the accuracy of both right and left ventricular outflow volume determination and semiautomated calculation of shunt volumes through the atrial septal defects by digital color Doppler flow mapping in a chronic animal model, 587

E-biomed
Is E-biomed the future of *JACC*? (editor's page), 1654

Echocardiography
See also Dipyridamole; Dobutamine; Doppler ultrasound; Stress testing; Ultrasound
Acute myocardial infarction with isolated ST-segment elevation in posterior chest leads V_{7-9}: "hidden" ST-segment elevations revealing acute posterior infarction, 748
Assessing the quality of medical diagnosis (editorial comment), 1837
Echocardiographic assessment of the left atrial appendage, 1867
Echocardiographic predictors of left ventricular outflow tract obstruction and systolic anterior motion of the mitral valve after mitral valve reconstruction for myxomatous valve disease, 2096
Epidemiologic approach to quality assessment in echocardiography diagnosis, 1831
Functional anatomy of mitral regurgitation: accuracy and outcome implications of transesophageal echocardiography, 1129
How reliable are serial echocardiographic measurements in detecting regression in left ventricular hypertrophy and changes in function? (editorial comment), 1633
Reliability of echocardiographic assessment of left ventricular structure and function: the PRESERVE study, 1625
Remote telemedical interpretation of neonatal echocardiograms: impact on clinical management in a primary care setting, 241
Transthoracic echocardiography using second harmonic imaging: diagnostic alternative to transesophageal echocardiography for the detection of atrial right to left shunt in patients with cerebral embolic events, 1823

Economics
Going, going . . . gone (Editor's page), 1228

Ectasias
Exercise-induced myocardial ischemia in isolated coronary artery ectasias and aneurysms ("dilated coronaropathy"), 1461

Edema
See Pulmonary edema

Editorials, editorial comments, editorial reviews
Angiotensin-converting enzyme inhibitors and cytokines in heart failure: dose and effect?, 2068
Antioxidant vitamins: sorting out the good and the not so good, 1216
Assessing the quality of medical diagnosis, 1837
Atrial arrhythmias after cardiac surgery: Sisyphus revisited?, 348
Can stents damage coronary arteries remote from the stent?, 1680
Catheterization after myocardial infarction and the mismeasure of un-American inactivity, 23
Cellular and extracellular mechanisms causing myocardial stunning, 603
Chlamydia pneumoniae infection and coronary artery disease, 1440
Combination therapy for acute myocardial infarction, 1963
Comparing the U.S. and Canadian approaches to coronary angiography: what have we learned?, 20
Elevation of creatine kinase, MB fraction after elective coronary intervention: a valid surrogate end point of poor late outcome?, 672
Endotoxin: another phantom menace?, 1982
Fen-Phen and valvular heart disease: if it sounds too bad to be true, perhaps it isn't, 1159
How reliable are serial echocardiographic measurements in detecting regression in left ventricular hypertrophy and changes in function? 1633
Language of lysis: a proposal to standardize the nomenclature, 1226
Learning more about indications for implantable cardioverter-defibrillator, 1096
Long lesions, long stents and the long process of stent optimization, 660
Nuclear cardiology after angioplasty and stent placement: beyond sensitivity and specificity, 1042
Optimal balloon angioplasty versus elective stent implantation, 1907
Percutaneous coronary interventions heed the American College of Cardiology volume recommendations, but strive to improve quality, 1481
Postmenopausal hormone therapy—good for smokers?, 138
Prevention of postoperative atrial fibrillation: what is the best approach?, 340
Snuff, nicotine and cardiovascular disease: implications for tobacco control, 1791
Sudden death in mitral regurgitation: why was I so surprised?, 2086
To stent or not to stent—that is the question, 1489
Tunnel at the end of the light, 1671
Use of clopidogrel in coronary stenting: what was the question?, 1895
Vascular radiation therapy: the devil is in the dose, 567
When should we start randomized trials for new devices?, 1049

Editor's page
Annual Report—*JACC* 1998, 293
Going, going . . . gone, 1228
Is E-biomed the future of *JACC*?, 1654
Old friend turns 100, 606
Reunion, 2137
Who should be an expert witness? (Editor's page), 885

Education
Going, going . . . gone (Editor's page), 1228
Relative influence of secondary versus primary prevention using the National Cholesterol Education Program Adult Treatment Panel II guidelines, 768

Education update
Training programs in the United States, in adult cardiology, pediatric cardiology, and cardiothoracic surgery, and post-fellowship training (Preceptorships) in adult cardiology, 1231

Eisenmenger syndrome
Eisenmenger syndrome in adults: ventricular septal defect, truncus arteriosus, univentricular heart, 223

Ejection fraction
Improvement of left ventricular ejection fraction, heart failure symptoms and prognosis after revascularization in patients with chronic coronary artery disease and viable myocardium detected by dobutamine stress echocardiography, 163
Relative effectiveness of the implantable cardioverter-defibrillator and antiarrhythmic drugs in patients with varying degrees of left ventricular dysfunction who have survived malignant ventricular arrhythmias, 1090
Restenosis, late vessel occlusion and left ventricular function six months after balloon angioplasty in diabetic patients, 476

Elasticity
See Coronary artery elasticity

Elderly
See also Age factors
Angiotensin I-converting enzyme and plasminogen activator inhibitor-1 gene variants: risk of mortality and fatal cardiovascular disease in an elderly population-based cohort, 1176
Beta-blocker therapy for secondary prevention of myocardial infarction in elderly diabetic patients: results from the National Cooperative Cardiovascular Project, 1388

Electrocardiography
See also specific interval; specific segment; specific wave
Acute myocardial infarction with isolated ST-segment elevation in posterior chest leads V_{7-9}: "hidden" ST-segment elevations revealing acute posterior infarction, 748
Characteristics of electrograms recorded at reentry circuit sites and bystanders during ventricular tachycardia after myocardial infarction, 381
Computer-assisted animation of atrial tachyarrhythmias recorded with a 64-electrode basket catheter, 2051
ST-segment monitoring with continuous 12-lead ECG improves risk stratification in patients with chest pain and ECG nondiagnostic of acute myocardial infarction, 1413
Value of the electrocardiogram in localizing the occlusion site in the left anterior descending coronary artery in acute anterior myocardial infarction, 389

Electrophysiologic studies
Electromechanical left ventricular behavior after nonsurgical septal reduction in patients with hypertrophic obstructive cardiomyopathy, 1117
Gated blood-pool SPECT evaluation of changes after radiofrequency catheter ablation of accessory pathways: evidence for persistent ventricular preexcitation despite successful therapy, 1839
Long-term outcome of patients with unexplained syncope treated with an electrophysiologic-guided approach in the implantable cardioverter-defibrillator era, 1082
Sinus node function and ventricular repolarization during exercise stress test in long QT syndrome patients with KLQT1 and HERG potassium channel defects, 823
Ventricular rate control during atrial fibrillation by cardiac parasympathetic nerve stimulation: a transvenous approach, 2042

Embolism
Transthoracic echocardiography using second

harmonic imaging: diagnostic alternative to transesophageal echocardiography for the detection of atrial right to left shunt in patients with cerebral embolic events, 1823

Enalapril
Angiotensin-converting enzyme inhibition reduces monocyte chemoattractant protein-1 and tissue factor levels in patients with myocardial infarction, 983
Effect of aspirin and ifetroban on skeletal muscle blood flow in patients with congestive heart failure treated with enalapril, 170
Effect of high- versus low dose angiotensin converting enzyme inhibition on cytokine levels in chronic heart failure, 2061

Endocrine hormones
See Neuroendocrine hormones

Endomyocardial biopsy
Complications of endomyocardial biopsy in children, 2105

Endothelial function
Assessment and treatment of endothelial dysfunction in humans, 631
Can stents damage coronary arteries remote from the stent? (editorial comment), 1680
Effect of angiotensin-converting enzyme inhibition and angiotensin II type-I receptor antagonism on postprandial endothelial function, 140
Endothelial and metabolic characteristics of patients with angina and angiographically normal coronary arteries: comparison with subjects with insulin resistance syndrome and normal controls, 1452
Folic acid improves arterial endothelial function in adults with hyperhomocysteinemia, 2002
Gene transfer of nitric oxide synthase: effects on endothelial biology, 1201
Glutathione reverses endothelial dysfunction and improves nitric oxide bioavailability, 507
Hyperglycemia rapidly suppresses flow-mediated endothelium-dependent vasodilation in brachial artery, 146
Long-term endothelial dysfunction after coronary artery stenting, 1675

Endothelin
Changes of hemostasis, endogenous fibrinolysis, platelet activation and endothelins after percutaneous transluminal coronary angioplasty in patients with stable angina, 486
Elevated endothelin concentrations are associated with reduced coronary vasomotor responses in patients with chest pain and normal coronary arteriograms, 455

Endotoxin
Association of endotoxemia with carotid atherosclerosis and cardiovascular disease: prospective results from the Bruneck study, 1975
Endotoxin: another phantom menace? (editorial comment), 1982

Entrainment
Characteristics of electrograms recorded at reentry circuit sites and bystanders during ventricular tachycardia after myocardial infarction, 381
Demonstration of the mechanisms of transient entrainment and interruption of ventricular tachycardia with rapid atrial pacing (historical article), 959

Estrogen
See also Hormone replacement therapy
Evidence against a role of physiologic concentrations of estrogen in post-myocardial infarction remodeling, 1427
Hormone replacement therapy in postmenopausal women protects against smoking-induced changes in vascular structure and function, 131
Postmenopausal hormone therapy—good for smokers? (editorial comment), 138

Exercise testing
See Stress testing

Exercise training
Neuroendocrine activation in heart failure is modified by endurance exercise training, 1170

EXP3174
EXP3174, the AII antagonist human metabolite of losartan, but not losartan nor the angiotensin-converting enzyme inhibitor captopril, prevents the development of lethal ischemic ventricular arrhythmias in a canine model of recent myocardial infarction, 876

Expert witness
Who should be an expert witness? (Editor's page), 885

Extracellular matrix
External beam radiation after stent implantation increases neointimal hyperplasia by augmenting smooth muscle cell proliferation and extracellular matrix accumulation, 561

Fenestration
Is it necessary to routinely fenestrate an extracardiac Fontan?, 539

Fenfluramine
See Phentermine-fenfluramine

Fibrillation
See Atrial fibrillation/flutter; Ventricular fibrillation

Fibrin
Language of lysis: a proposal to standardize the nomenclature (editorial), 1226

Fibrinolysis
See also Thrombolytic therapy
Changes of hemostasis, endogenous fibrinolysis, platelet activation and endothelins after percutaneous transluminal coronary angioplasty in patients with stable angina, 486

Flutter
See Atrial fibrillation/flutter

Folate
Effect of folate supplementation in hyperhomocysteinemic pigs, 274

Folic acid
Folic acid improves arterial endothelial function in adults with hyperhomocysteinemia, 2002

Frusemide
Hemodynamic and neuroendocrine effects for Candoxatril and frusemide in mild stable chronic heart failure, 1794

Gender issues
See also Men; Women
Association of body mass, gender and race with heart failure primarily due to hypertension, 1602
Gender differences in molecular remodeling in pressure overload hypertrophy, 264
Worse clinical outcome but similar graft patency in women versus men in year after coronary artery bypass surgery owing to an excess of exposed risk factors in women, 1760

Gene expression
Gender differences in molecular remodeling in pressure overload hypertrophy, 264

Gene transfer
Catheter-based myocardial gene transfer utilizing nonfluoroscopic electromechanical left ventricular mapping, 246

Genetics
See also Angiotensinogen gene
Angiotensin I-converting enzyme and plasminogen activator inhibitor-1 gene variants: risk of mortality and fatal cardiovascular disease in an elderly population-based cohort, 1176
Arrhythmic disorder mapped to chromosome 1q42–q43 causes malignant polymorphic ventricular tachycardia in structurally normal hearts, 2035
Clinical profiles of four large pedigrees with familial dilated cardiomyopathy: preliminary recommendations for clinical practice, 837
Deletion genotype of the angiotensin I-converting enzyme is associated with an increased vascular reactivity in vivo and in vitro, 830
Familial dilated cardiomyopathy: evidence for genetic and phenotypic heterogeneity, 181
Familial polymorphic ventricular arrhythmias: a quarter century of successful medical treatment based on serial exercise-pharmacologic testing, 2015
Lack of association of a common polymorphism of the plasminogen activator inhibitor-1 gene with coronary artery disease and myocardial infarction, 1778

Glucose loading
Hyperglycemia rapidly suppresses flow-mediated endothelium-dependent vasodilation in brachial artery, 146

Glutathione
Glutathione reverses endothelial dysfunction and improves nitric oxide bioavailability, 507

Glycogen
Slowed glycogen utilization enhances exercise endurance in patients with heart failure, 1807

Glycoprotein IIb/IIIa receptor blockade
Economic impact of GPIIb/IIIa blockade after high-risk angioplasty: results from the RESTORE trial, 1061
Effect of glycoprotein IIb/IIIa receptor blockade on platelet-leukocyte interaction and surface expression of the leukocyte integrin Mac-1 in acute myocardial infarction, 1420
Overcoming thrombolytic resistance: rationale and initial clinical experience combining thrombolytic therapy and glycoprotein IIb/IIIa receptor inhibition for acute myocardial infarction, 1395

Graft vascular disease
Volumetric remodeling of the proximal left coronary artery: early versus late after heart transplantation, 197

Grafts
Arterialization of human vein grafts is associated with tenascin-C expression, 871
Influence of abciximab use on clinical outcome after aortocoronary vein graft intervention, 1163
Retrieval and analysis of particulate debris after saphenous vein graft intervention, 468
Worse clinical outcome but similar graft patency in women versus men in year after coronary artery bypass surgery owing to an excess of exposed risk factors in women, 1760

Handgrip
Coronary Doppler intensity changes during handgrip: a new method to detect coronary vasomotor tone in coronary artery disease, 428

Health care
Going, going . . . gone (Editor's page), 1228

Heart block
Complete atrioventricular block complicating acute myocardial infarction in the thrombolytic era, 1721
Mechanisms and clinical significance of transient atrioventricular block during dobutamine stress echocardiography, 998

JACC Vol. 34, No. 7, 1999
December 1999:2157–75

Heart failure
Angiotensin-converting enzyme inhibitors and cytokines in heart failure: dose and effect? (editorial comment), 2068
Association of body mass, gender and race with heart failure primarily due to hypertension, 1602
Beta-adrenergic receptor agonists and cyclic nucleotide phosphodiesterase inhibitors: shifting the focus from inotropy to cyclic adenosine monophosphate, 318
Beta-blockade in heart failure: a comparison of carvedilol and metoprolol, 1522
Carvedilol in class IV heart failure (letter), 2149
Comparison of ventricular pressure relaxation assessments in human heart failure: quantitative influence on load and drug sensitivity analysis, 1529
Desensitization of the pulmonary adenylyl cyclase system: a cause of airway hyperresponsiveness in congestive heart failure, 848
Effect of aspirin and ifetroban on skeletal muscle blood flow in patients with congestive heart failure treated with enalapril, 170
Effect of high- versus low dose angiotensin converting enzyme inhibition on cytokine levels in chronic heart failure, 2061
Hemodynamic and neuroendocrine effects for Candoxatril and frusemide in mild stable chronic heart failure, 1794
Improvement of left ventricular ejection fraction, heart failure symptoms and prognosis after revascularization in patients with chronic coronary artery disease and viable myocardium detected by dobutamine stress echocardiography, 163
Neuroendocrine activation in heart failure is modified by endurance exercise training, 1170
Nonadherence with angiotensin-converting enzyme inhibitor therapy: a comparison of different ways of measuring it in patients with chronic heart failure, 2072
Pulmonary hypertension and exercise intolerance in patients with heart failure, 1802
Slowed glycogen utilization enhances exercise endurance in patients with heart failure, 1807
Sustained hemodynamic effects of an infusion of nesiritide (human type natriuretic peptide) in heart failure: a randomized, double-blind, placebo-controlled clinical trial, 155
Twenty year trends (1975–1995) in the incidence, in-hospital and long-term death rates associated with heart failure complicating acute myocardial infarction: a community-wide perspective, 1378

Heart rate
Measurement of heart rate variability: a clinical tool or a research toy?, 1878
Noninvasive assessment of the cardiac baroreflex response to downward tilting and comparison with the phenylephrine method, 211
Sudden death, arrhythmic events and measurement of heart rate variability (letter), 2148
Time-varying spectral analysis of heart rate and left ventricular pressure variability during balloon coronary occlusion in humans: a sympathoexcitatory response to myocardial ischemia, 1924

Heart transplantation
Volumetric remodeling of the proximal left coronary artery: early versus late after heart transplantation, 197

Hemodynamics
Hemodynamic and neuroendocrine effects for Candoxatril and frusemide in mild stable chronic heart failure, 1794
Hemodynamic and physical performance during maximal exercise in patients with an aortic bioprosthetic valve: comparison of stentless versus stented bioprosthesis, 1609
Simultaneous intracoronary velocity- and pressure-derived assessment of adenosine-induced collateral hemodynamics in patients with one- to two-vessel coronary artery disease, 1985
Sustained hemodynamic effects of an infusion of nesiritide (human type natriuretic peptide) in heart failure: a randomized, double-blind, placebo-controlled clinical trial, 155

Hemostasis
Changes of hemostasis, endogenous fibrinolysis, platelet activation and endothelins after percutaneous transluminal coronary angioplasty in patients with stable angina, 486

Heparin
Changes of hemostasis, endogenous fibrinolysis, platelet activation and endothelins after percutaneous transluminal coronary angioplasty in patients with stable angina, 486
Heparin after percutaneous intervention (HAPI): a prospective multicenter randomized trial of three heparin regimens after successful coronary intervention, 461
Recombinant hirudin (lepirudin) for the improvement of thrombolysis with streptokinase in patients with acute myocardial infarction: results of the HIT-4 trial, 966
Thrombin generation after the abrupt cessation of intravenous unfractionated heparin among patients with acute coronary syndromes: potential mechanisms for heightened prothrombotic potential, 1020

Hibernation
Repeated stunning precedes myocardial hibernation in progressive multiple coronary artery obstruction, 2126

Hirudin
Recombinant hirudin (lepirudin) for the improvement of thrombolysis with streptokinase in patients with acute myocardial infarction: results of the HIT-4 trial, 966

Hispanics
Outcome of Hispanic patients treated with thrombolytic therapy for acute myocardial infarction: results from the GUSTO-I and -III trials, 1729

Historical articles
Angiographic morphology and the pathogenesis of unstable angina pectoris, 1854
Demonstration of the mechanisms of transient entrainment and interruption of ventricular tachycardia with rapid atrial pacing, 959
Incremental value of prognostic testing in patients with known or suspected ischemic heart disease: a basis for optimal utilization of exercise technetium-99m sestamibi myocardial perfusion single-photon emission computed tomography, 9
Natural history of aortic and mitral valve disease, 315
Oxygen consumption of the heart: newer concepts of its multifactorial determination, 1365
Percutaneous transluminal coronary angioplasty: report from the registry of the National Heart, Lung, and Blood Institute, 615
Relation between transmitral flow velocity patterns of left ventricular diastolic function: new insights from a combined hemodynamic and Doppler echocardiographic study, 1659
Treatment of myocardial infarction in a coronary care unit: a two year experience with 250 patients, 1851

HIV
Detection of viral genotypes by polymerase chain reaction in the myocardium of pediatric patients with advanced HIV disease, 857

Homocysteine
See Hyperhomocysteinemia

Hormone replacement therapy
See also Estrogen therapy
Additive effects of simvastatin and hormone replacement therapy in hypercholesterolemic postmenopausal women (letter), 311

Hospitals
Six-month outcome in unstable angina patients without previous myocardial infarction according to the use of tertiary cardiologic resources, 1947

Human immunodeficiency virus
See HI

Hypercholesterolemia
Additive effects of simvastatin and hormone replacement therapy in hypercholesterolemic postmenopausal women (letter), 311
Pravastatin restored the infarct size-limiting effect of ischemic preconditioning blunted by hypercholesterolemia in the rabbit model of myocardial infarction, 2120

Hyperglycemia
Hyperglycemia rapidly suppresses flow-mediated endothelium-dependent vasodilation in brachial artery, 146

Hyperhomocysteinemia
Effect of folate supplementation in hyperhomocysteinemic pigs, 274
Folic acid improves arterial endothelial function in adults with hyperhomocysteinemia, 2002

Hypertension
See also Antihypertensive therapy
Activating beta-1-adrenoceptor antibodies are not associated with cardiomyopathies secondary to valvular or hypertensive heart disease, 1545
Association of body mass, gender and race with heart failure primarily due to hypertension, 1602
Comparison of stress/rest myocardial perfusion tomography, dipyridamole and dobutamine stress echocardiography for the detection of coronary disease in hypertensive patients with chest pain and positive exercise test, 441
Effect of orally active prostacyclin analogue on survival of outpatients with primary pulmonary hypertension, 1188
Effects of chronic prostacyclin therapy on cardiac output and symptoms in primary pulmonary hypertension, 1184
Hypertension detection, treatment and control: a call to action for cardiovascular specialists, 1360
Necessity for recognition and treatment of patients with "mild" hypertension, 1369
Pulmonary hypertension and exercise intolerance in patients with heart failure, 1802

Hypertrophy
See also Cardiomyopathy
Angiotensinogen gene M235T polymorphism, predicts left ventricular hypertrophy in endurance athletes, 494
Gender differences in molecular remodeling in pressure overload hypertrophy, 264
How reliable are serial echocardiographic measurements in detecting regression in left ventricular hypertrophy and changes in function? (editorial comment), 1633

Hypoalphalipoproteinemia
Hyperinsulinemic hypoalphalipoproteinemia as a new indicator for coronary heart disease, 1443
Hypoplastic left heart syndrome
Hypoplastic left heart syndrome with intact atrial septum: atrial morphology, pulmonary vascular histopathology and outcome, 554

Ifetroban
Effect of aspirin and ifetroban on skeletal muscle blood flow in patients with congestive heart failure treated with enalapril, 170
Immune globulin
Intravenous immune globulin in the therapy of peripartum cardiomyopathy, 177
Inflammation
Cytomegalovirus in the pathogenesis of atherosclerosis: the role of inflammation as reflected by elevated C-reactive protein levels, 1738
Enhanced inflammatory response in patients with preinfarction unstable angina, 1696
Inotropic response
Beta-adrenergic receptor agonists and cyclic nucleotide phosphodiesterase inhibitors: shifting the focus from inotropy to cyclic adenosine monophosphate, 318
Insulin
Endothelial and metabolic characteristics of patients with angina and angiographically normal coronary arteries: comparison with subjects with insulin resistance syndrome and normal controls, 1452
Hyperinsulinemic hypoalphalipoproteinemia as a new indicator for coronary heart disease, 1443
Integrins
Effect of glycoprotein IIb/IIIa receptor blockade on platelet-leukocyte interaction and surface expression of the leukocyte integrin Mac-1 in acute myocardial infarction, 1420
Interleukin-2 receptor
Evaluation of serum levels of solubilized adhesion molecules and cytokine receptors on coronary heart disease, 1995
Interleukin-6
Effect of high- versus low dose angiotensin converting enzyme inhibition on cytokine levels in chronic heart failure, 2061
Internal mammary arteries
Effects of coronary artery bypass grafting using internal mammary arteries for diabetic patients, 532
Internet
Is E-biomed the future of *JACC*? (Editor's page), 1654
President's page: Integrating the Internet into your practice, 2139
Interventional cardiology
American College of Cardiology Training Statement of Recommendations for the Structure of an Optimal Adult Interventional Cardiology Training Program: endorsed by the Society for Cardiac Angiography and Intervention, 2141
Intimal hyperplasia
Tissue characteristics of restenosis after percutaneous transluminal coronary angioplasty in diabetic patients, 1045
Ischemia
See also Myocardial ischemia
Bradykinin-induced preconditioning in patients undergoing coronary angioplasty, 639
Cardiomyocytes from hearts with left ventricular dysfunction after ischemia-reperfusion do not manifest contractile abnormalities, 594
Circadian variation of malignant ventricular arrhythmias in patients with ischemic and non-ischemic heart disease after cardioverter defibrillator implantation, 1560
Evidence for the delayed effect of human ischemic preconditioning: prospective multicenter study for preconditioning in acute myocardial infarction, 1966
Heparin after percutaneous intervention (HAPI): a prospective multicenter randomized trial of three heparin regimens after successful coronary intervention, 461
Nocturnal ischemic events in patients with obstructive sleep apnea syndrome and ischemic heart disease: effect of continuous positive air pressure treatment, 1744
Pravastatin restored the infarct size-limiting effect of ischemic preconditioning blunted by hypercholesterolemia in the rabbit model of myocardial infarction, 2120
ST elevation secondary to microvascular dysfunction (letter), 312

JACC
Annual Report—*JACC* 1998 (Editor's page), 293
Is E-biomed the future of *JACC*? (Editor's page), 1654
Japan
Clinical features of isolated noncompaction of the ventricular myocardium: long-term clinical course, hemodynamic properties, and genetic background, 233

Kidneys
Renal effect of low-dose dopamine in high-risk patients undergoing coronary angiography, 1682

Lasers
Catheter-based percutaneous myocardial laser revascularization in patients with end-stage coronary artery disease, 1663
Factors correlating with risk of mortality after transmyocardial revascularization, 55
Laser angioplasty of restenosed coronary stents: results of a multicenter surveillance trial, 25
Lepirudin
See Hirudin
Letters to the editor
Additive effects of simvastatin and hormone replacement therapy in hypercholesterolemic postmenopausal women, 311
Angina pectoris: myocardial infarction and verapamil, 957
Aortic debris and coronary guiding catheters, 312
Beta-blockers—a forgotten antiventricular tachyfibrillation drug class?, 952
Carvedilol in class IV heart failure, 2149
Chlamydia pneumoniae in redo and first-time coronary artery bypass grafting, 953
Dynamic left ventricular outflow obstruction as a potential mechanism of myocardial rupture after acute myocardial infarction, 2150
Electrical storm in patients with transvenous implantable cardioverter-defibrillator, 950
Enhanced activity of sodium-lithium countertransport in patients with cardiac syndrome X: a potential link between cardiac and metabolic syndrome X, 955
Is electron beam computed tomography the sole detection method for coronary calcium?, 611
Milking in hypertrophic cardiomyopathy, 949
Myocardial salvage: AT_1-receptor blockade, AT_2-receptor activation and coronary collaterals, 310
Repairing tetralogy of Fallot—does age matter?, 1657
ST elevation secondary to microvascular dysfunction, 312
Sudden death, arrhythmic events and measurement of heart rate variability, 2148
Sulfonylurea drugs and cardiovascular mortality, 958
Use of radial artery applanation tonometry, 951
Ventricular reduction therapy: controlled clinical trials overdue, 610
Winter and cardiovascular mortality, 2150
Leukocytes
Effect of glycoprotein IIb/IIIa receptor blockade on platelet-leukocyte interaction and surface expression of the leukocyte integrin Mac-1 in acute myocardial infarction, 1420
Lipids
Effect of angiotensin-converting enzyme inhibition and angiotensin II type-I receptor antagonism on postprandial endothelial function, 140
Lipoproteins
Arterial remodeling in the left coronary system: the role of high-density lipoprotein cholesterol, 760
Differential effects of α- and γ-tocopherol on low-density lipoprotein oxidation, superoxide activity, platelet aggregation and arterial thrombogenesis, 1208
Hyperinsulinemic hypoalphalipoproteinemia as a new indicator for coronary heart disease, 1443
Vascular smooth muscle proliferation: synergistic interaction between serotonin and low density lipoproteins, 1644
Lithium
Enhanced activity of sodium-lithium countertransport in patients with cardiac syndrome X: a potential link between cardiac and metabolic syndrome X (letter), 955
Long QT interval syndrome
See QT interval
Losartan
Effect of angiotensin-converting enzyme inhibition and angiotensin II type-I receptor antagonism on postprandial endothelial function, 140
EXP3174, the AII antagonist human metabolite of losartan, but not losartan nor the angiotensin-converting enzyme inhibitor captopril, prevents the development of lethal ischemic ventricular arrhythmias in a canine model of recent myocardial infarction, 876
Lumen
Coronary artery distensibility in diabetic patients with simultaneous measurements of luminal area and intracoronary pressure: evidence of impaired reactivity to nitroglycerin, 1075
Mechanisms of acute lumen gain and recurrent restenosis after rotational atherectomy of diffuse in-stent restenosis: a quantitative angiographic and intravascular ultrasound study, 33
Propensity and mechanisms of restenosis in different coronary stent designs: complementary value of the analysis of the luminal gain-loss relationship, 1490
Lung
Desensitization of the pulmonary adenylyl cyclase system: a cause of airway hyperresponsiveness in congestive heart failure, 848

Mac-1
Effect of glycoprotein IIb/IIIa receptor blockade on platelet-leukocyte interaction and surface expression of the leukocyte integrin Mac-1 in acute myocardial infarction, 1420

JACC Vol. 34, No. 7, 1999
December 1999:2157–75

Magnetic resonance imaging
See Angiography
Malpractice
Who should be an expert witness? (Editor's page), 885
Mammary arteries
See Internal mammary arteries
Mapping procedures
Catheter-based myocardial gene transfer utilizing nonfluoroscopic electromechanical left ventricular mapping, 246
Computer-assisted animation of atrial tachyarrhythmias recorded with a 64-electrode basket catheter, 2051
Medical school
Reunion (Editor's page), 2137
Men
See also Gender issues
Smokeless tobacco as a possible risk factor for myocardial infarction: a population-based study in middle-aged men, 1784
Merck Manual
Old friend turns 100 (Editor's page), 606
Metabolism
Endothelial and metabolic characteristics of patients with angina and angiographically normal coronary arteries: comparison with subjects with insulin resistance syndrome and normal controls, 1452
Metoprolol
Beta-blockade in heart failure: a comparison of carvedilol and metoprolol, 1522
Microbubbles
Flow dynamics of QW7437, a new dodecafluoropentane ultrasound contrast agent, in the microcirculation: microvascular mechanisms for persistent tissue echo enhancement, 578
Microcirculation
Flow dynamics of QW7437, a new dodecafluoropentane ultrasound contrast agent, in the microcirculation: microvascular mechanics for persistent tissue echo enhancement, 578
Microvascular dysfunction
ST elevation secondary to microvascular dysfunction (letter), 312
Mitral valve disease
Echocardiographic predictors of left ventricular outflow tract obstruction and systolic anterior motion of the mitral valve after mitral valve reconstruction for myxomatous valve disease, 2096
Functional anatomy of mitral regurgitation: accuracy and outcome implications of trans-esophageal echocardiography, 1129
Is redo percutaneous mitral balloon valvuloplasty (PMV) indicated in patients with post-PMV mitral restenosis?, 49
Mitral balloon valvotomy for patients with mitral stenosis in atrial fibrillation: immediate and long-term results, 1145
Natural history of aortic and mitral valve disease (historical article), 315
Progression of mitral regurgitation: a prospective Doppler echocardiographic study, 1137
Sudden death in mitral regurgitation: why was I so surprised? (editorial comment), 2086
Sudden death in mitral regurgitation due to flail leaflet, 2078
Molecular cardiology
Gene transfer of nitric oxide synthase: effects on endothelial biology, 1201
Monocyte chemoattractant protein-1
Angiotensin-converting enzyme inhibition reduces monocyte chemoattractant protein-1 and tissue factor levels in patients with myocardial infarction, 983
Morphologic studies
Angiographic morphology and the pathogenesis of unstable angina pectoris (historical article), 1854
Mortality rates
Angiotensin I-converting enzyme and plasminogen activator inhibitor-1 gene variants: risk of mortality and fatal cardiovascular disease in an elderly population-based cohort, 1176
Cause of death in clinical research: time for a reassessment? (viewpoint), 618
Causes of death in the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 1552
Effect of the angiotensin-converting enzyme inhibitor trandolapril on mortality and morbidity in diabetic patients with left ventricular dysfunction after acute myocardial infarction, 83
Factors correlating with risk of mortality after transmyocardial revascularization, 55
Multivariate prediction of in-hospital mortality after percutaneous coronary interventions in 1994–1996, 681
Sulfonylurea drugs and cardiovascular mortality (letter), 958
Twenty year trends (1975–1995) in the incidence, in-hospital and long-term death rates associated with heart failure complicating acute myocardial infarction: a community-wide perspective, 1378
Validation of risk adjustment models for in-hospital percutaneous transluminal coronary angioplasty mortality on an independent data set, 692
Winter and cardiovascular mortality (letter), 2150
Myectomy
Comparison of dual-chamber pacing versus septal myectomy for the treatment of patients with hypertrophic obstructive cardiomyopathy: a comparison of objective hemodynamic and exercise end-points, 191
Myocardial bridging
Milking in hypertrophic cardiomyopathy (letter), 949
Myocardial function
See also Ventricular function
Effects of biphasic and conventional monophasic defibrillation on postresuscitation myocardial function, 815
Myocardial hibernation
See Hibernation
Myocardial infarction
See also Thrombolytic therapy
1999 update: ACC/AHA Practice Guidelines for the Management of Patients with Acute Myocardial Infarction: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Management of Acute Myocardial Infarction), 890
Acute myocardial infarction with isolated ST-segment elevation in posterior chest leads V_{7-9}: "hidden" ST-segment elevations revealing acute posterior infarction, 748
Adenosine as an adjunct to thrombolytic therapy for acute myocardial infarction: results of a multicenter, randomized, placebo-controlled trial: the Acute Myocardial Infarction STudy of ADenosine (AMISTAD) trial, 1711
Angina pectoris: myocardial infarction and verapamil (letter), 957
Angiotensin-converting enzyme inhibition reduces monocyte chemoattractant protein-1 and tissue factor levels in patients with myocardial infarction, 983
Arrhythmia recurrence in patients with a healed myocardial infarction who received an implantable defibrillator: analysis according to the clinical presentation, 351
Beta-blocker therapy for secondary prevention of myocardial infarction in elderly diabetic patients: results from the National Cooperative Cardiovascular Project, 1388
Catheterization after myocardial infarction and the mismeasure of un-American inactivity, (editorial comment), 23
Characteristics of electrograms recorded at reentry circuit sites and bystanders during ventricular tachycardia after myocardial infarction, 381
Combination therapy for acute myocardial infarction (Editorial comment), 1963
Comparison of U.S. and Canadian cardiac catheterization practices in detecting severe coronary artery disease after myocardial infarction: efficiency, yield and long-term implications, 12
Complete atrioventricular block complicating acute myocardial infarction in the thrombolytic era, 1721
Dynamic left ventricular outflow obstruction as a potential mechanism of myocardial rupture after acute myocardial infarction (letter), 2150
Effect of the angiotensin-converting enzyme inhibitor trandolapril on mortality and morbidity in diabetic patients with left ventricular dysfunction after acute myocardial infarction, 83
Enhanced inflammatory response in patients with preinfarction unstable angina, 1696
Evidence against a role of physiologic concentrations of estrogen in post-myocardial infarction remodeling, 1427
Evidence for the delayed effect of human ischemic preconditioning: prospective multicenter study for preconditioning in acute myocardial infarction, 1966
EXP3174, the AII antagonist human metabolite of losartan, but not losartan nor the angiotensin-converting enzyme inhibitor captopril, prevents the development of lethal ischemic ventricular arrhythmias in a canine model of recent myocardial infarction, 876
Impaired coronary blood flow in nonculprit arteries in the setting of acute myocardial infarction, 974
Lack of association of a common polymorphism of the plasminogen activator inhibitor-1 gene with coronary artery disease and myocardial infarction, 1778
Long-term (three-year) prognosis of patients treated with reperfusion or conservatively after myocardial infarction, 70
Low-level exercise echocardiography detects contractile reserve and predicts reversible dysfunction after acute myocardial infarction: comparison with low-dose dobutamine echocardiography, 989
Myoglobin, creatine kinase-MB and cardiac troponin I 60-minute ratios predict infarct-related artery patency after thrombolysis for acute myocardial infarction: Results from the Thrombolysis in Myocardial Infarction study (TIMI) 10B, 739
Noninvasive evaluation of pulmonary capillary

wedge pressure in patients with acute myocardial infarction by deceleration time of pulmonary venous flow velocity in diastole, 90
Pravastatin restored the infarct size-limiting effect of ischemic preconditioning blunted by hypercholesterolemia in the rabbit model of myocardial infarction, 2120
Prediction of cardiac events after uncomplicated acute myocardial infarction by clinical variables and dobutamine stress test, 435
Prediction of functional recovery of viable myocardium after delayed revascularization in postinfarction patients: accuracy of dobutamine stress echocardiography and influence of long-term vessel patency, 1012
Randomized trial comparing primary angioplasty with a strategy of short-acting thrombolysis and immediate planned rescue angioplasty in acute myocardial infarction: the PACT trial, 1954
Recombinant hirudin (lepirudin) for the improvement of thrombolysis with streptokinase in patients with acute myocardial infarction: results of the HIT-4 trial, 966
Risk stratification of emergency department patients with acute coronary syndromes using P-selectin, 95
Smokeless tobacco as a possible risk factor for myocardial infarction: a population-based study in middle-aged men, 1784
ST-segment monitoring with continuous 12-lead ECG improves risk stratification in patients with chest pain and ECG nondiagnostic of acute myocardial infarction, 1413
Survival 12 years after randomization to streptokinase: the influence of thrombolysis in myocardial infarction flow at three to four weeks, 62
Treatment of myocardial infarction in a coronary care unit: a two year experience with 250 patients (historical article), 1851
Twenty year trends (1975–1995) in the incidence, in-hospital and long-term death rates associated with heart failure complicating acute myocardial infarction: a community-wide perspective, 1378
Value of the electrocardiogram in localizing the occlusion site in the left anterior descending coronary artery in acute anterior myocardial infarction, 389

Myocardial injury
Detection of myocardial injury during radiofrequency catheter ablation by measuring serum cardiac troponin I levels: procedural correlates, 1099
Detection of myocardial injury during transvenous implantation of automatic cardioverter-defibrillator, 402

Myocardial ischemia
Exercise-induced myocardial ischemia in isolated coronary artery ectasias and aneurysms ("dilated coronaropathy"), 1461
Improvement of myocardial blood flow to ischemic regions by angiotensin-converting enzyme inhibition with quinaprilat IV: a study using [^{15}O] water dobutamine stress positron emission tomography, 1005
Time-varying spectral analysis of heart rate and left ventricular pressure variability during balloon coronary occlusion in humans: a sympathoexcitatory response to myocardial ischemia, 1924

Myocardial noncompaction
Clinical features of isolated noncompaction of the ventricular myocardium: long-term clinical course, hemodynamic properties, and genetic background, 233

Myocardial perfusion
Comparison of stress/rest myocardial perfusion tomography, dipyridamole and dobutamine stress echocardiography for the detection of coronary disease in hypertensive patients with chest pain and positive exercise test, 441
Increased stress right ventricular activity on dual isotope perfusion SPECT: a sign of multivessel and/or left main coronary artery disease, 420
Incremental value of prognostic testing in patients with known or suspected ischemic heart disease: a basis for optimal utilization of exercise technetium-99m sestamibi myocardial perfusion single-photon emission computed tomography (historical review), 9
Myocardial perfusion and oxygen consumption in reperfused noninfarcted dysfunctional myocardium after unstable angina: direct evidence for myocardial stunning in humans, 1939

Myocardial rupture
Dynamic left ventricular outflow obstruction as a potential mechanism of myocardial rupture after acute myocardial infarction (letter), 2150

Myocardial stunning
See Stunning

Myocardial viability
Improvement of left ventricular ejection fraction, heart failure symptoms and prognosis after revascularization in patients with chronic coronary artery disease and viable myocardium detected by dobutamine stress echocardiography, 163
Prediction of functional recovery of viable myocardium after delayed revascularization in postinfarction patients: accuracy of dobutamine stress echocardiography and influence of long-term vessel patency, 1012

Myocarditis
Detection of viral genotypes by polymerase chain reaction in the myocardium of pediatric patients with advanced HIV disease, 857

Myocytes
Cardiomyocytes from hearts with left ventricular dysfunction after ischemia-reperfusion do not manifest contractile abnormalities, 594
Cellular and extracellular mechanisms causing myocardial stunning (editorial comment), 603
Myocardial cell death in fibrillating and dilated human atria, 1577

Myoglobin
Myoglobin, creatine kinase-MB and cardiac troponin I 60-minute ratios predict infarct-related artery patency after thrombolysis for acute myocardial infarction: results from the Thrombolysis in Myocardial Infarction study (TIMI) 10B, 739

Myxoma
Echocardiographic predictors of left ventricular outflow tract obstruction and systolic anterior motion of the mitral valve after mitral valve reconstruction for myxomatous valve disease, 2096

National Cholesterol Education Program
Relative influence of secondary versus primary prevention using the National Cholesterol Education Program Adult Treatment Panel II guidelines, 768

National Heart, Lung, and Blood Institute
Percutaneous transluminal coronary angioplasty: report from the registry of the National Heart, Lung, and Blood Institute (historical article), 615

Neointimal hyperplasia
External beam radiation after stent implantation increases neointimal hyperplasia by augmenting smooth muscle cell proliferation and extracellular matrix accumulation, 561

Nesiritide
Sustained hemodynamic effects of an infusion of nesiritide (human type natriuretic peptide) in heart failure: a randomized, double-blind, placebo-controlled clinical trial, 155

Neuroendocrine system
Hemodynamic and neuroendocrine effects for Candoxatril and frusemide in mild stable chronic heart failure, 1794
Neuroendocrine activation in heart failure is modified by endurance exercise training, 1170

Neutrophil activation
P-selectin inhibition prevents early neutrophil activation but provides only modest protection against myocardial injury in dogs with ischemia and forty-eight hours reperfusion, 280

Nicotine
See also Smoking
Smokeless tobacco as a possible risk factor for myocardial infarction: a population-based study in middle-aged men, 1784

Nitric oxide
Abnormal cardiac function in the streptozotocin-induced non–insulin-dependent diabetic rat: noninvasive assessment with Doppler echocardiography and contribution of the nitric oxide pathway, 2110
Gene transfer of nitric oxide synthase: effects on endothelial biology, 1201
Glutathione reverses endothelial dysfunction and improves nitric oxide bioavailability, 507

Nitroglycerin
Coronary artery distensibility in diabetic patients with simultaneous measurements of luminal area and intracoronary pressure: evidence of impaired reactivity to nitroglycerin, 1075

Nuclear cardiology
Nuclear cardiology after angioplasty and stent placement: beyond sensitivity and specificity (editorial comment), 1042

Occlusion
See Coronary occlusion

Operator volume
Direct coronary stenting without predilation, 1916
Percutaneous coronary interventions heed the American College of Cardiology volume recommendations, but strive to improve quality (editorial comment), 1481
Relationship between operator volume and outcomes after percutaneous coronary interventions in high volume hospitals in 1994–1996, the northern New England experience, 1471

Outcome analysis
Outcome of Hispanic patients treated with thrombolytic therapy for acute myocardial infarction: results from the GUSTO-I and -III trials, 1729

Oxygen consumption
Myocardial perfusion and oxygen consumption in reperfused noninfarcted dysfunctional myocardium after unstable angina: direct

evidence for myocardial stunning in humans, 1939
Oxygen consumption of the heart: newer concepts of its multifactorial determination (historical article), 1365

P-selectin
P-selectin inhibition prevents early neutrophil activation but provides only modest protection against myocardial injury in dogs with ischemia and forty-eight hours reperfusion, 280
Risk stratification of emergency department patients with acute coronary syndromes using P-selectin, 95

Pacing
Comparison of dual-chamber pacing versus septal myectomy for the treatment of patients with hypertrophic obstructive cardiomyopathy: a comparison of objective hemodynamic and exercise end-points, 191
Demonstration of the mechanisms of transient entrainment and interruption of ventricular tachycardia with rapid atrial pacing (historical article), 959
Electromechanical left ventricular behavior after nonsurgical septal reduction in patients with hypertrophic obstructive cardiomyopathy, 1117
Elevated endothelin concentrations are associated with reduced coronary vasomotor responses in patients with chest pain and normal coronary arteriograms, 455

Pain
Effect of acetylsalicylate on cardiac and muscular pain induced by intracoronary and intra-arterial infusion of bradykinin in humans, 216

Parasympathetic nervous system
Ventricular rate control during atrial fibrillation by cardiac parasympathetic nerve stimulation: a transvenous approach, 2042

Patient care
President's page: great circle: a target for better patient care, 294

Payment issues
President's page: what is advocacy doing for us? What can we do?, 607

Pediatric cardiology
See also Congenital heart defects; Surgery, pediatric
Cohort study of childhood hypertrophic cardiomyopathy: improved survival following high-dose beta-adrenoceptor antagonist treatment, 1813
Complications of endomyocardial biopsy in children, 2105
Detection of viral genotypes by polymerase chain reaction in the myocardium of pediatric patients with advanced HIV disease, 857
Milking in hypertrophic cardiomyopathy (letter), 949
Training programs in the United States, in adult cardiology, pediatric cardiology, and cardiothoracic surgery, and post-fellowship training (Preceptorships) in adult cardiology, 1231

Percutaneous coronary interventions
See also specific procedure
Changing outcomes in percutaneous coronary interventions: a study of 34,752 procedures in northern New England, 674
Creatine kinase-MB elevation after coronary intervention correlates with diffuse atherosclerosis, and low-to-medium level elevation has a benign clinical course: implications for early discharge after coronary intervention, 663
Elevation of creatine kinase, MB fraction after elective coronary intervention: a valid surrogate end point of poor late outcome? (editorial comment), 672
Multivariate prediction of in-hospital mortality after percutaneous coronary interventions in 1994–1996, 681
Percutaneous coronary interventions heed the American College of Cardiology volume recommendations, but strive to improve quality (editorial comment), 1481
Relationship between operator volume and outcomes after percutaneous coronary interventions in high volume hospitals in 1994–1996, the northern New England experience, 1471

Performance management and measures
President's page: performance measures and our "art," 1229

Perfusion
See Myocardial perfusion

Peripheral vascular disease
Prognostic importance of lower extremity arterial disease in patients undergoing coronary revascularization in the Bypass Angioplasty Revascularization Investigation (BARI), 716

Phen-fen
See Phentermine-fenfluramine

Phentermine-fenfluramine
Fen-Phen and valvular heart disease: if it sounds too bad to be true, perhaps it isn't (editorial comment), 1159
Low prevalence of valvular heart disease in 226 phentermine-fenfluramine protocol subjects prospectively followed for up to 30 months, 1153

Phenylephrine
Deletion genotype of the angiotensin I-converting enzyme is associated with an increased vascular reactivity in vivo and in vitro, 830
Noninvasive assessment of the cardiac baroreflex response to downward tilting and comparison with the phenylephrine method, 211

Photoplethysmography
Photoplethysmographic assessment of pulse wave reflection: blunted response to endothelium-dependent beta$_2$-adrenergic vasodilation in type II diabetes mellitus, 2007

Plasma tissue factor
Angiotensin-converting enzyme inhibition reduces monocyte chemoattractant protein-1 and tissue factor levels in patients with myocardial infarction, 983

Plasminogen activator
Myoglobin, creatine kinase-MB and cardiac troponin I 60-minute ratios predict infarct-related artery patency after thrombolysis for acute myocardial infarction: results from the Thrombolysis in Myocardial Infarction study (TIMI) 10B, 739

Plasminogen activator inhibitor
Angiotensin I-converting enzyme and plasminogen activator inhibitor-1 gene variants: risk of mortality and fatal cardiovascular disease in an elderly population-based cohort, 1176
Lack of association of a common polymorphism of the plasminogen activator inhibitor-1 gene with coronary artery disease and myocardial infarction, 1778

Platelet
Effect of glycoprotein IIb/IIIa receptor blockade on platelet-leukocyte interaction and surface expression of the leukocyte integrin Mac-1 in acute myocardial infarction, 1420

Platelet activation
Changes of hemostasis, endogenous fibrinolysis, platelet activation and endothelins after percutaneous transluminal coronary angioplasty in patients with stable angina, 486

Platelet aggregation
Differential effects of α- and γ-tocopherol on low-density lipoprotein oxidation, superoxide activity, platelet aggregation and arterial thrombogenesis, 1208

Polymerase chain reaction
Detection of viral genotypes by polymerase chain reaction in the myocardium of pediatric patients with advanced HIV disease, 857

Potassium channel defects
Sinus node function and ventricular repolarization during exercise stress test in long QT syndrome patients with KvLQT1 and HERG potassium channel defects, 823

Practice guidelines
See also ACC/AHA Practice Guidelines
Clinical practice guidelines in unstable angina improves clinical outcomes by assuring early intensive medical treatment, 1689

Practice issues
President's page: what is advocacy doing for us? What can we do?, 607

Pravastatin
Pravastatin prevents clinical events in revascularized patients with average cholesterol concentrations, 106
Pravastatin restored the infarct size-limiting effect of ischemic preconditioning blunted by hypercholesterolemia in the rabbit model of myocardial infarction, 2120

Preceptorships
Training programs in the United States, in adult cardiology, pediatric cardiology, and cardiothoracic surgery, and post-fellowship training (Preceptorships) in adult cardiology, 1231

Preconditioning
Bradykinin-induced preconditioning in patients undergoing coronary angioplasty, 639
Evidence for the delayed effect of human ischemic preconditioning: prospective multicenter study for preconditioning in acute myocardial infarction, 1966
Pravastatin restored the infarct size-limiting effect of ischemic preconditioning blunted by hypercholesterolemia in the rabbit model of myocardial infarction, 2120

Pregnancy
Intravenous immune globulin in the therapy of peripartum cardiomyopathy, 177

Pressure
See Ventricular pressure decay time

Preventive care
Relative influence of secondary versus primary prevention using the National Cholesterol Education Program Adult Treatment Panel II guidelines, 768

Primary care centers
Remote telemedical interpretation of neonatal echocardiograms: impact on clinical management in a primary care setting, 241

Prognosis
Comparison of troponin T and troponin I as predictors of cardiac events in patients undergoing chronic dialysis at a Veteran's hospital: a pilot study, 448
One-year follow-up after intravascular ultrasound

assessment of moderate left main coronary artery disease in patients with ambiguous angiograms, 707
Prediction of cardiac events after uncomplicated acute myocardial infarction by clinical variables and dobutamine stress test, 435
Prognostic importance of lower extremity arterial disease in patients undergoing coronary revascularization in the Bypass Angioplasty Revascularization Investigation (BARI), 716

Prostacyclin
Effect of orally active prostacyclin analogue on survival of outpatients with primary pulmonary hypertension, 1188
Effects of chronic prostacyclin therapy on cardiac output and symptoms in primary pulmonary hypertension, 1184

Pulmonary artery banding
New strategy for the surgical treatment of aortic coarctation associated with ventricular septal defect in infants using an absorbable pulmonary artery band, 866

Pulmonary capillary wedge pressure
Combined use of pulsed and color M-mode Doppler echocardiography for the estimation of pulmonary capillary wedge pressure: an empirical approach based on an analytical relation, 515
Noninvasive evaluation of pulmonary capillary wedge pressure in patients with acute myocardial infarction by deceleration time of pulmonary venous flow velocity in diastole, 90

Pulmonary edema
Long T wave inversion and QT prolongation associated with pulmonary edema: a report of nine cases, 1106

Pulmonary vascular disease
Hypoplastic left heart syndrome with intact atrial septum: atrial morphology, pulmonary vascular histopathology and outcome, 554

Pulmonary vein
Noninvasive assessment of left atrial maximum dP/dt by a combination of transmitral and pulmonary venous flow, 795
Pulmonary venous systolic flow pulse—its origin and relationship to left atrial pressure, 802

QT interval
Exaggerated QT prolongation after cardioversion of atrial fibrillation, 396
Long T wave inversion and QT prolongation associated with pulmonary edema: a report of nine cases, 1106
Sinus node function and ventricular repolarization during exercise stress test in long QT syndrome patients with KvLQT1 and HERG potassium channel defects, 823

Quality assessment
Assessing the quality of medical diagnosis (editorial comment), 1837
Epidemiologic approach to quality assessment in echocardiography diagnosis, 1831

Quinapril
Effect of angiotensin-converting enzyme inhibition and angiotensin II type-I receptor antagonism on postprandial endothelial function, 140

Quinaprilat
Improvement of myocardial blood flow to ischemic regions by angiotensin-converting enzyme inhibition with quinaprilat IV: a study using [^{15}O] water dobutamine stress positron emission tomography, 1005

QW7437
Flow dynamics of QW7437, a new dodecafluoropentane ultrasound contrast agent, in the microcirculation: microvascular mechanisms for persistent tissue echo enhancement, 578

Race factors
Association of body mass, gender and race with heart failure primarily due to hypertension, 1602
Racial differences in the significance of coronary calcium in asymptomatic black and white subjects with coronary risk factors, 787

Radial artery
Use of radial artery applanation tonometry (letter), 951

Radiation therapy
External beam radiation after stent implantation increases neointimal hyperplasia by augmenting smooth muscle cell proliferation and extracellular matrix accumulation, 561
Vascular radiation therapy: the devil is in the dose (editorial comment), 567

Randomized trials
See also Clinical trials
Final results of the STent versus Directional Coronary Atherectomy Randomized Trial (START), 1050
When should we start randomized trials for new devices? (editorial comment), 1049

Reader bias
Epidemiologic approach to quality assessment in echocardiography diagnosis, 1831

Reentry circuits
Characteristics of electrograms recorded at reentry circuit sites and bystanders during ventricular tachycardia after myocardial infarction, 381

Reperfusion
Cardiomyocytes from hearts with left ventricular dysfunction after ischemia-reperfusion do not manifest contractile abnormalities, 594

Reperfusion injury
P-selectin inhibition prevents early neutrophil activation but provides only modest protection against myocardial injury in dogs with ischemia and forty-eight hours reperfusion, 280

Reperfusion therapy
Long-term (three-year) prognosis of patients treated with reperfusion or conservatively after myocardial infarction, 70

Research
Cause of death in clinical research: time for a reassessment? (viewpoint), 618
Measurement of heart rate variability: a clinical tool or a research toy?, 1878

Restenosis
External beam radiation after stent implantation increases neointimal hyperplasia by augmenting smooth muscle cell proliferation and extracellular matrix accumulation, 561
Is redo percutaneous mitral balloon valvuloplasty (PMV) indicated in patients with post-PMV mitral restenosis?, 49
Laser angioplasty of restenosed coronary stents: results of a multicenter surveillance trial, 25
Long lesions, long stents and the long process of stent optimization (editorial comment), 660
Mechanisms of acute lumen gain and recurrent restenosis after rotational atherectomy of diffuse in-stent restenosis: a quantitative angiographic and intravascular ultrasound study, 33
Periprocedural quantitative coronary angiography after Palmaz-Schatz stent implantation predicts the restenosis rate at six months: results of a metaanalysis the Belgian Netherlands Stent Study (BENESTENT) I, BENESTENT II Pilot, BENESTENT II and MUSIC Trials, 1067
Preprocedural serum levels of C-reactive protein predicts early complications and late restenosis after coronary angioplasty, 1512
Propensity and mechanisms of restenosis in different coronary stent designs: complementary value of the analysis of the luminal gain-loss relationship, 1490
Randomized comparison of coronary stent implantation and balloon angioplasty in the treatment of de novo coronary artery lesions (START): a four-year follow-up, 1498
Randomized trial of elective stenting after balloon recanalization of chronic total occlusions, 722
Restenosis, late vessel occlusion and left ventricular function six months after balloon angioplasty in diabetic patients, 476
Short- and long-term evolution of unstented nonocclusive coronary dissection after coronary angioplasty, 1484
Stented segment length as an independent predictor of restenosis, 651
Tissue characteristics of restenosis after percutaneous transluminal coronary angioplasty in diabetic patients, 1045
Vascular radiation therapy: the devil is in the dose (editorial comment), 567

Revascularization
See also specific procedure
Cardiac troponin I levels and clinical outcomes in patients with acute coronary syndromes: the potential role of early percutaneous revascularization, 1704
Catheter-based percutaneous myocardial laser revascularization in patients with end-stage coronary artery disease, 1663
Factors correlating with risk of mortality after transmyocardial revascularization, 55
Implications of small vessel diameter in patients undergoing percutaneous coronary revascularization, 40
Improvement of left ventricular ejection fraction, heart failure symptoms and prognosis after revascularization in patients with chronic coronary artery disease and viable myocardium detected by dobutamine stress echocardiography, 163
Long-term (three-year) prognosis of patients treated with reperfusion or conservatively after myocardial infarction, 70
Pravastatin prevents clinical events in revascularized patients with average cholesterol concentrations, 106
Prediction of functional recovery of viable myocardium after delayed revascularization in postinfarction patients: accuracy of dobutamine stress echocardiography and influence of long-term vessel patency, 1012
Prognostic importance of lower extremity arterial disease in patients undergoing coronary revascularization in the Bypass Angioplasty Revascularization Investigation (BARI), 716
Relationship of extent of revascularization with angina at one year in the Bypass Angioplasty Revascularization Investigation (BARI), 1750
Tunnel at the end of the light (editorial comment), 1671

Risk factors
Assessment of cardiovascular risk by use of multiple-risk-factor assessment equations: A Statement for Healthcare Professionals from The American Heart Association and The American College of Cardiology, 1348

Lack of association of a common polymorphism of the plasminogen activator inhibitor-1 gene with coronary artery disease and myocardial infarction, 1778
Racial differences in the significance of coronary calcium in asymptomatic black and white subjects with coronary risk factors, 787
Shocks as predictors of survival in patients with transplantable cardioverter-defibrillators, 204
Smokeless tobacco as a possible risk factor for myocardial infarction: a population-based study in middle-aged men, 1784
Snuff, nicotine and cardiovascular disease: implications for tobacco control (editorial comment), 1791
ST-segment monitoring with continuous 12-lead ECG improves risk stratification in patients with chest pain and ECG nondiagnostic of acute myocardial infarction, 1413
Sulfonylurea drugs and cardiovascular mortality (letter), 958
Validation of risk adjustment models for in-hospital percutaneous transluminal coronary angioplasty mortality on an independent data set, 692
Worse clinical outcome but similar graft patency in women versus men in year after coronary artery bypass surgery owing to an excess of exposed risk factors in women, 1760

Rupture
See Myocardial rupture

Salvage procedures
Myocardial salvage: AT_1-receptor blockade, AT_2-receptor activation and coronary collaterals (letter), 310

Saphenous vein
Arterialization of human vein grafts is associated with tenascin-C expression, 871
Retrieval and analysis of particulate debris after saphenous vein graft intervention, 468

Sarcoplasmic reticulum
Alterations in cardiac sarcoplasmic reticulum Ca^{2+} regulatory protein in the atrial tissue of patients with atrial fibrillation, 255

Seasonal variation
Winter and cardiovascular mortality (letter), 2150

Serotonin
Vascular smooth muscle proliferation: synergistic interaction between serotonin and low density lipoproteins, 1644

Sestamibi
See Technetium-99m

Shock therapy
Shocks as predictors of survival in patients with transplantable cardioverter-defibrillators, 204

Shunting
Transthoracic echocardiography using second harmonic imaging: diagnostic alternative to transesophageal echocardiography for the detection of atrial right to left shunt in patients with cerebral embolic events, 1823
Validation of the accuracy of both right and left ventricular outflow volume determination and semiautomated calculation of shunt volumes through the atrial septal defects by digital color Doppler flow mapping in a chronic animal model, 587

Simvastatin
Additive effects of simvastatin and hormone replacement therapy in hypercholesterolemic postmenopausal women (letter), 311

Sinus node
Sinus node function and ventricular repolarization during exercise stress test in long QT syndrome patients with KvLQT1 and HERG potassium channel defects, 823

Sinus rhythm
Exaggerated QT prolongation after cardioversion of atrial fibrillation, 396

Skeletal muscle
Effect of aspirin and ifetroban on skeletal muscle blood flow in patients with congestive heart failure treated with enalapril, 170

Sleep apnea
Nocturnal ischemic events in patients with obstructive sleep apnea syndrome and ischemic heart disease: effect of continuous positive air pressure treatment, 1744

Slide preparation
President's page: meeting improvement: a guide to preparation of "slides" for presentation, 887

Smoking
Association of endotoxemia with carotid atherosclerosis and cardiovascular disease: prospective results from the Bruneck study, 1975
Hormone replacement therapy in postmenopausal women protects against smoking-induced changes in vascular structure and function, 131
Postmenopausal hormone therapy—good for smokers? (editorial comment), 138
Smokeless tobacco as a possible risk factor for myocardial infarction: a population-based study in middle-aged men, 1784

Smooth muscle cells
External beam radiation after stent implantation increases neointimal hyperplasia by augmenting smooth muscle cell proliferation and extracellular matrix accumulation, 561
Vascular smooth muscle proliferation: synergistic interaction between serotonin and low density lipoproteins, 1644

Snuff
Smokeless tobacco as a possible risk factor for myocardial infarction: a population-based study in middle-aged men, 1784
Snuff, nicotine and cardiovascular disease: implications for tobacco control (editorial comment), 1791

Sodium
Enhanced activity of sodium-lithium countertransport in patients with cardiac syndrome X: a potential link between cardiac and metabolic syndrome X (letter), 955

Sotalol
Oral *d,l* sotalol reduces the incidence of postoperative atrial fibrillation in coronary artery bypass surgery patients: a randomized, double-blind, placebo-controlled study, 334

Spasm
See coronary artery spasm

ST segment
Acute myocardial infarction with isolated ST-segment elevation in posterior chest leads V_{7-9}: "hidden" ST-segment elevations revealing acute posterior infarction, 748
Significance of persistent ST elevation versus early resolution of ST segment elevation after primary PTCA, 1932
ST elevation secondary to microvascular dysfunction (letter), 312
ST-segment monitoring with continuous 12-lead ECG improves risk stratification in patients with chest pain and ECG nondiagnostic of acute myocardial infarction, 1413

Stenosis
See also Restenosis
One-year follow-up after intravascular ultrasound assessment of moderate left main coronary artery disease in patients with ambiguous angiograms, 707
Repeated stunning precedes myocardial hibernation in progressive multiple coronary artery obstruction, 2126

Stenting
Acute and nine-month clinical outcomes after "suboptimal" coronary stenting: results from the STent Anti-thrombotic Regimen Study (STARS), 698
Can stents damage coronary arteries remote from the stent? (editorial comment), 1680
Clopidogrel an an adjunctive antiplatelet therapy during coronary stenting, 1884
Clopidogrel versus ticlopidine after intracoronary stent placement, 1891
Direct coronary stenting without predilation, 1916
Does angiography six months after coronary intervention influence management and outcome?, 1507
Early recovery of coronary flow reserve after stent implantation as assessed by positron emission tomography, 1036
External beam radiation after stent implantation increases neointimal hyperplasia by augmenting smooth muscle cell proliferation and extracellular matrix accumulation, 561
Final results of the STent versus Directional Coronary Atherectomy Randomized Trial (START), 1050
Hemodynamic and physical performance during maximal exercise in patients with an aortic bioprosthetic valve: comparison of stentless versus stented bioprosthesis, 1609
Hyperemic coronary flow after optimized intravascular ultrasound-guided balloon angioplasty and stent implantation, 1899
Laser angioplasty of restenosed coronary stents: results of a multicenter surveillance trial, 25
Long lesions, long stents and the long process of stent optimization (editorial comment), 660
Long-term endothelial dysfunction after coronary artery stenting, 1675
Mechanisms of acute lumen gain and recurrent restenosis after rotational atherectomy of diffuse in-stent restenosis: a quantitative angiographic and intravascular ultrasound study, 33
Nuclear cardiology after angioplasty and stent placement: beyond sensitivity and specificity (editorial comment), 1042
Optimal balloon angioplasty versus elective stent implantation (editorial comment), 1907
Periprocedural quantitative coronary angiography after Palmaz-Schatz stent implantation predicts the restenosis rate at six months: results of a metaanalysis of the Belgian Netherlands Stent Study (BENESTENT) I, BENESTENT II Pilot, BENESTENT II and MUSIC Trials, 1067
Propensity and mechanisms of restenosis in different coronary stent designs: complementary value of the analysis of the luminal gain-loss relationship, 1490
Randomized comparison of coronary stent implantation and balloon angioplasty in the treatment of de novo coronary artery lesions (START): a four-year follow-up, 1498
Randomized trial of elective stenting after balloon recanalization of chronic total occlusions, 722
Short- and long-term evolution of unstented

nonocclusive coronary dissection after coronary angioplasty, 1484
Stented segment length as an independent predictor of restenosis, 651
To stent or not to stent—that is the question (editorial comment), 1489
Use of clopidogrel in coronary stenting: what was the question? (editorial comment), 1895
Vascular radiation therapy: the devil is in the dose (editorial comment), 567
When should we start randomized trials for new devices? (editorial comment), 1049

Streptokinase
Recombinant hirudin (lepirudin) for the improvement of thrombolysis with streptokinase in patients with acute myocardial infarction: results of the HIT-4 trial, 966
Survival 12 years after randomization to streptokinase: the influence of Thrombolysis in Myocardial Infarction flow at three to four weeks, 62

Streptozotocin
Abnormal cardiac function in the streptozotocin-induced non–insulin-dependent diabetic rat: noninvasive assessment with Doppler echocardiography and contribution of the nitric oxide pathway, 2110

Stress testing
See also Dipyridamole; Dobutamine; Thallium-201 studies
Comparison of stress/rest myocardial perfusion tomography, dipyridamole and dobutamine stress echocardiography for the detection of coronary disease in hypertensive patients with chest pain and positive exercise test, 441
Delayed systolic blood pressure recovery after graded exercise: an independent correlate of angiographic coronary artery disease, 754
European multicenter study on propionyl-L-carnitine in intermittent claudication, 1618
Familial polymorphic ventricular arrhythmias: a quarter century of successful medical treatment based on serial exercise-pharmacologic testing, 2015
Hemodynamic and physical performance during maximal exercise in patients with an aortic bioprosthetic valve: comparison of stentless versus stented bioprosthesis, 1609
Impact of early ventricular unloading on exercise performance in preadolescents with single ventricle Fontan physiology, 1637
Increased stress right ventricular activity on dual isotope perfusion SPECT: a sign of multivessel and/or left main coronary artery disease, 420
Incremental value of prognostic testing in patients with known or suspected ischemic heart disease: a basis for optimal utilization of exercise technetium-99m sestamibi myocardial perfusion single-photon emission computed tomography (historical review), 9
Low-level exercise echocardiography detects contractile reserve and predicts reversible dysfunction after acute myocardial infarction: comparison with low-dose dobutamine echocardiography, 989
Pulmonary hypertension and exercise intolerance in patients with heart failure, 1802
Sinus node function and ventricular repolarization during exercise stress test in long QT syndrome patients with KvLQT1 and HERG potassium channel defects, 823
Slowed glycogen utilization enhances exercise endurance in patients with heart failure, 1807

Stress-velocity relationship
Influence of low afterload on the nature of the stress-velocity relationship, 1219

Stroke
Winter and cardiovascular mortality (letter), 2150

Stunning
Cardiomyocytes from hearts with left ventricular dysfunction after ischemia-reperfusion do not manifest contractile abnormalities, 594
Cellular and extracellular mechanisms causing myocardial stunning (editorial comment), 603
Myocardial perfusion and oxygen consumption in reperfused noninfarcted dysfunctional myocardium after unstable angina: direct evidence for myocardial stunning in humans, 1939
Repeated stunning precedes myocardial hibernation in progressive multiple coronary artery obstruction, 2126

Sudden death
Management of ventricular arrhythmias: a trial-based approach, 621
Sudden death, arrhythmic events and measurement of heart rate variability (letter), 2148
Sudden death in mitral regurgitation: why was I so surprised? (editorial comment), 2086
Sudden death in mitral regurgitation due to flail leaflet, 2078

Sulfonylurea drugs
Sulfonylurea drugs and cardiovascular mortality (letter), 958

Superoxide
Differential effects of α- and γ-tocopherol on low-density lipoprotein oxidation, superoxide activity, platelet aggregation and arterial thrombogenesis, 1208

Surgery, cardiac
Atrial arrhythmias after cardiac surgery: Sisyphus revisited? (editorial comment), 348
Intravenous amiodarone for the prevention of atrial fibrillation after open heart surgery: the Amiodarone Reduction in Coronary Heart (ARCH) trial, 343
Ventricular reduction therapy: controlled clinical trials overdue (letter), 610

Surgery, cardiothoracic
Training programs in the United States, in adult cardiology, pediatric cardiology, and cardiothoracic surgery, and post-fellowship training (Preceptorships) in adult cardiology, 1231

Surgery, coronary artery bypass
See also Grafts
ACC/AHA Guidelines for Coronary artery bypass graft surgery: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee to Revise the 1991 Guidelines for Coronary Artery Bypass Graft Surgery), 1262
Changing outcomes in percutaneous coronary interventions: a study of 34,752 procedures in northern New England, 674
Chlamydia pneumoniae in redo and first-time coronary artery bypass grafting (letter), 953
Effects of coronary artery bypass grafting using internal mammary arteries for diabetic patients, 532
Oral *d,l* sotalol reduces the incidence of postoperative atrial fibrillation in coronary artery bypass surgery patients: a randomized, double-blind, placebo-controlled study, 334
Prevention of postoperative atrial fibrillation: what is the best approach? (editorial comment), 340
Relationship of extent of revascularization with angina at one year in the Bypass Angioplasty Revascularization Investigation (BARI), 1750
Worse clinical outcome but similar graft patency in women versus men in year after coronary artery bypass surgery owing to an excess of exposed risk factors in women, 1760

Surgery, pediatric
Factors associated with outcomes of persistent truncus arteriosus, 545
Is it necessary to routinely fenestrate an extracardiac Fontan?, 539
New strategy for the surgical treatment of aortic coarctation associated with ventricular septal defect in infants using an absorbable pulmonary artery band, 866
Repairing tetralogy of Fallot—does age matter? (letter), 1657

Surgery, valve
See also Valvuloplasty
Echocardiographic predictors of left ventricular outflow tract obstruction and systolic anterior motion of the mitral valve after mitral valve reconstruction for myxomatous valve disease, 2096

Survival rates
In-hospital versus out-of-hospital presentation of life-threatening ventricular arrhythmias predicts survival: results from the AVID Registry, 1111
Survival 12 years after randomization to streptokinase: the influence of thrombolysis in myocardial infarction flow at three to four weeks, 62

Symposia
President's page: ACC Annual Scientific Session—a new meeting for a new millennium, 1655

Syncope
Diagnostic utility of mechanical, pharmacological and orthostatic stimulation of the carotid sinus in patients with unexplained syncope, 1587
Implantable defibrillator event rates in patients with unexplained syncope and inducible sustained ventricular tachyarrhythmias: a comparison with patients known to have sustained ventricular tachycardia, 2023
Long-term outcome of patients with unexplained syncope treated with an electrophysiologic-guided approach in the implantable cardioverter-defibrillator era, 1082

Syndrome X
Endothelial and metabolic characteristics of patients with angina and angiographically normal coronary arteries: comparison with subjects with insulin resistance syndrome and normal controls, 1452
Enhanced activity of sodium-lithium countertransport in patients with cardiac syndrome X: a potential link between cardiac and metabolic syndrome X (letter), 955

Systolic function
Noninvasive assessment of left atrial maximum dP/dt by a combination of transmitral and pulmonary venous flow, 795

T wave
Determinant of microvolt-level T-wave alternans in patients with dilated cardiomyopathy, 374
Long T wave inversion and QT prolongation associated with pulmonary edema: a report of nine cases, 1106

Tachyarrhythmias
See Arrhythmias, atrial; Ventricular tachycardia
Tachycardia
See Ventricular tachycardia
Technetium-99m
Incremental value of prognostic testing in patients with known or suspected ischemic heart disease: a basis for optimal utilization of exercise technetium-99m sestamibi myocardial perfusion single-photon emission computed tomography (historical review), 9
Telemedicine
Remote telemedical interpretation of neonatal echocardiograms: impact on clinical management in a primary care setting, 241
Tenascin-C
Arterialization of human vein grafts is associated with tenascin-C expression, 871
Tertiary hospitals
Six-month outcome in unstable angina patients without previous myocardial infarction according to the use of tertiary cardiologic resources, 1947
Tetralogy of Fallot
Repairing tetralogy of Fallot—does age matter? (letter), 1657
Thallium-201 studies
Effects of medical therapy on outcome assessment using exercise thallium-201 single photon emission computed tomography imaging: evidence of a protective effect of beta-blocking antianginal medications, 113
Thrombin
Thrombin generation after the abrupt cessation of intravenous unfractionated heparin among patients with acute coronary syndromes: potential mechanisms for heightened prothrombotic potential, 1020
Thrombolytic therapy
See also Fibrinolysis; specific agent
Adenosine as an adjunct to thrombolytic therapy for acute myocardial infarction: results of a multicenter, randomized, placebo-controlled trial: the Acute Myocardial Infarction STudy of ADenosine (AMISTAD) trial, 1711
Combination therapy for acute myocardial infarction (editorial comment), 1963
Determinants of coronary blood flow after thrombolytic administration, 1403
Language of lysis: a proposal to standardize the nomenclature (editorial), 1226
Long-term (three-year) prognosis of patients treated with reperfusion or conservatively after myocardial infarction, 70
Outcome of Hispanic patients treated with thrombolytic therapy for acute myocardial infarction: results from the GUSTO-I and -III trials, 1729
Overcoming thrombolytic resistance: rationale and initial clinical experience combining thrombolytic therapy and glycoprotein IIb/IIIa receptor inhibition for acute myocardial infarction, 1395
Randomized trial comparing primary angioplasty with a strategy of short-acting thrombolysis and immediate planned rescue angioplasty in acute myocardial infarction: the PACT trial, 1954
Thrombus, thrombosis
Differential effects of α- and γ-tocopherol on low-density lipoprotein oxidation, superoxide activity, platelet aggregation and arterial thrombogenesis, 1208
Thrombin generation after the abrupt cessation of intravenous unfractionated heparin among patients with acute coronary syndromes: potential mechanisms for heightened prothrombotic potential, 1020
Ticlopidine
Clopidogrel as an adjunctive antiplatelet therapy during coronary stenting, 1884
Clopidogrel versus ticlopidine after intracoronary stent placement, 1891
Tilt testing
Noninvasive assessment of the cardiac baroreflex response to downward tilting and comparison with the phenylephrine method, 211
Tirofiban
Economic impact of GPIIb/IIIa blockade after high-risk angioplasty: results from the RESTORE trial, 1061
Tobacco
Snuff, nicotine and cardiovascular disease: implications for tobacco control (editorial comment), 1791
Tocopherol
Antioxidant vitamins: sorting out the good and the not so good (editorial comment), 1216
Differential effects of α- and γ-tocopherol on low-density lipoprotein oxidation, superoxide activity, platelet aggregation and arterial thrombogenesis, 1208
Tomography
See also Computed tomography
Improvement of myocardial blood flow to ischemic regions by angiotensin-converting enzyme inhibition with quinaprilat IV: a study using [^{15}O] water dobutamine stress positron emission tomography, 1005
Tonometry
Use of radial artery applanation tonometry (letter), 951
Toxins
See Endotoxin
Training programs
See ACC Training Statement; Education, education update
Trandolapril
Effect of the angiotensin-converting enzyme inhibitor trandolapril on mortality and morbidity in diabetic patients with left ventricular dysfunction after acute myocardial infarction, 83
Transmitral vein
Noninvasive assessment of left atrial maximum dP/dt by a combination of transmitral and pulmonary venous flow, 795
Transplantation
See Heart transplantation
Troponin I
Cardiac troponin I levels and clinical outcomes in patients with acute coronary syndromes: the potential role of early percutaneous revascularization, 1704
Comparison of troponin T and troponin I as predictors of cardiac events in patients undergoing chronic dialysis at a Veteran's hospital: a pilot study, 448
Detection of myocardial injury during radiofrequency catheter ablation by measuring serum cardiac troponin I levels: procedural correlates, 1099
Detection of myocardial injury during transvenous implantation of automatic cardioverter-defibrillator, 402
Myoglobin, creatine kinase-MB and cardiac troponin I 60-minute ratios predict infarct-related artery patency after thrombolysis for acute myocardial infarction: results from the Thrombolysis in Myocardial Infarction study (TIMI) 10B, 739
Troponin T
Comparison of troponin T and troponin I as predictors of cardiac events in patients undergoing chronic dialysis at a Veteran's hospital: a pilot study, 448
Truncus arteriosus
Eisenmenger syndrome in adults: ventricular septal defect, truncus arteriosus, univentricular heart, 223
Factors associated with outcomes of persistent truncus arteriosus, 545
Tumor necrosis factor-alpha receptor
Evaluation of serum levels of solubilized adhesion molecules and cytokine receptors on coronary heart disease, 1995

Ultrasound
See also Doppler ultrasound; Echocardiography
Effects of adjunctive balloon angioplasty after intravascular ultrasound-guided optimal directional coronary atherectomy: the results of Adjunctive Balloon Angioplasty After Coronary Atherectomy Study (ABACAS), 1028
Flow dynamics of QW7437, a new dodecafluoropentane ultrasound contrast agent, in the microcirculation: microvascular mechanisms for persistent tissue echo enhancement, 578
Hyperemic coronary flow after optimized intravascular ultrasound-guided balloon angioplasty and stent implantation, 1899
One-year follow-up after intravascular ultrasound assessment of moderate left main coronary artery disease in patients with ambiguous angiograms, 707
United States
Catheterization after myocardial infarction and the mismeasure of un-American inactivity, (editorial comment), 23
Comparing the U.S. and Canadian approaches to coronary angiography: what have we learned (editorial comment)?, 20
Comparison of U.S. and Canadian cardiac catheterization practices in detecting severe coronary artery disease after myocardial infarction: efficiency, yield and long-term implications, 12
Univentricular heart
Eisenmenger syndrome in adults: ventricular septal defect, truncus arteriosus, univentricular heart, 223

Valve disease
See also Aortic valve disease; Mitral valve disease; Surgery, valve
Activating beta-1-adrenoceptor antibodies are not associated with cardiomyopathies secondary to valvular or hypertensive heart disease, 1545
Fen-Phen and valvular heart disease: if it sounds too bad to be true, perhaps it isn't (editorial comment), 1159
Low prevalence of valvular heart disease in 226 phentermine-fenfluramine protocol subjects prospectively followed for up to 30 months, 1153
Prevalence of valvular regurgitation associated with dexfenfluramine three to five months after discontinuation of treatment, 2088
Valve prosthesis
Hemodynamic and physical performance during

maximal exercise in patients with an aortic bioprosthetic valve: comparison of stentless versus stented bioprosthesis, 1609

Valvuloplasty
Is redo percutaneous mitral balloon valvuloplasty (PMV) indicated in patients with post-PMV mitral restenosis?, 49
Mitral balloon valvotomy for patients with mitral stenosis in atrial fibrillation: immediate and long-term results, 1145

Vasodilation
Hyperglycemia rapidly suppresses flow-mediated endothelium-dependent vasodilation in brachial artery, 146
Photoplethysmographic assessment of pulse wave reflection: blunted response to endothelium-dependent $beta_2$-adrenergic vasodilation in type II diabetes mellitus, 2007

Vasomotion
Coronary Doppler intensity changes during handgrip: a new method to detect coronary vasomotor tone in coronary artery disease, 428
Elevated endothelin concentrations are associated with reduced coronary vasomotor responses in patients with chest pain and normal coronary arteriograms, 455

Velocity
See Stress-velocity relationship

Ventricular arrhythmias
See Arrhythmias, ventricular

Ventricular dilation
Modulation of left ventricular diastolic distensibility by collateral flow recruitment during balloon coronary occlusion, 500

Ventricular fibrillation
Beta-blocker use and survival in patients with ventricular fibrillation or symptomatic ventricular tachycardia: the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 325
Effects of biphasic and conventional monophasic defibrillation on postresuscitation myocardial function, 815

Ventricular filling
Changes in left ventricular filling and left atrial function six months after nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy, 1123

Ventricular function
See also Myocardial function
Abnormal cardiac function in the streptozotocin-induced non–insulin-dependent diabetic rat: noninvasive assessment with Doppler echocardiography and contribution of the nitric oxide pathway, 2110
Cardiomyocytes from hearts with left ventricular dysfunction after ischemia-reperfusion do not manifest contractile abnormalities, 594
Effect of the angiotensin-converting enzyme inhibitor trandolapril on mortality and morbidity in diabetic patients with left ventricular dysfunction after acute myocardial infarction, 83
Evidence against a role of physiologic concentrations of estrogen in post-myocardial infarction remodeling, 1427
Gender differences in molecular remodeling in pressure overload hypertrophy, 264
Increased stress right ventricular activity on dual isotope perfusion SPECT: a sign of multivessel and/or left main coronary artery disease, 420
Myocardial contractile reserve on dobutamine echocardiography predicts late spontaneous improvement in cardiac function in patients with recent onset idiopathic dilated cardiomyopathy, 1537
Prediction of functional recovery of viable myocardium after delayed revascularization in postinfarction patients: accuracy of dobutamine stress echocardiography and influence of long-term vessel patency, 1012
Prognostic implications of myocardial contractile reserve in patients with coronary artery disease and left ventricular dysfunction, 730

Ventricular mass
Angiotensinogen gene M235T polymorphism, predicts left ventricular hypertrophy in endurance athletes, 494
How reliable are serial echocardiographic measurements in detecting regression in left ventricular hypertrophy and changes in function? (editorial comment), 1633
Reliability of echocardiographic assessment of left ventricular structure and function: the PRESERVE study, 1625

Ventricular outflow tract obstruction
Dynamic left ventricular outflow obstruction as a potential mechanism of myocardial rupture after acute myocardial infarction (letter), 2150
Echocardiographic predictors of left ventricular outflow tract obstruction and systolic anterior motion of the mitral valve after mitral valve reconstruction for myxomatous valve disease, 2096

Ventricular outflow volume
Validation of the accuracy of both right and left ventricular outflow volume determination and semiautomated calculation of shunt volumes through the atrial septal defects by digital color Doppler flow mapping in a chronic animal model, 587

Ventricular pressure
Time-varying spectral analysis of heart rate and left ventricular pressure variability during balloon coronary occlusion in humans: a sympathoexcitatory response to myocardial ischemia, 1924

Ventricular pressure decay time
Comparison of ventricular pressure relaxation assessments in human heart failure: quantitative influence on load and drug sensitivity analysis, 1529

Ventricular relaxation
Comparison of ventricular pressure relaxation assessments in human heart failure: quantitative influence on load and drug sensitivity analysis, 1529

Ventricular septal defect
Eisenmenger syndrome in adults: ventricular septal defect, truncus arteriosus, univentricular heart, 223
New strategy for the surgical treatment of aortic coarctation associated with ventricular septal defect in infants using an absorbable pulmonary artery band, 866

Ventricular septal reduction
Changes in left ventricular filling and left atrial function six months after nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy, 1123
Electromechanical left ventricular behavior after nonsurgical septal reduction in patients with hypertrophic obstructive cardiomyopathy, 1117

Ventricular tachycardia
Arrhythmic disorder mapped to chromosome 1q42–q43 causes malignant polymorphic ventricular tachycardia in structurally normal hearts, 2035
Beta-blocker use and survival in patients with ventricular fibrillation or symptomatic ventricular tachycardia: the Antiarrhythmics versus Implantable Defibrillators (AVID) trial, 325
Characteristics of electrograms recorded at reentry circuit sites and bystanders during ventricular tachycardia after myocardial infarction, 381
Demonstration of the mechanisms of transient entrainment and interruption of ventricular tachycardia with rapid atrial pacing (historical article), 959
Implantable defibrillator event rates in patients with unexplained syncope and inducible sustained ventricular tachyarrhythmias: a comparison with patients known to have sustained ventricular tachycardia, 2023
Long-term outcome of patients with unexplained syncope treated with an electrophysiologic-guided approach in the implantable cardioverter-defibrillator era, 1082

Ventricular volume
Impact of early ventricular unloading on exercise performance in preadolescents with single ventricle Fontan physiology, 1637

Ventricular wall motion
Objective evaluation of regional left ventricular wall motion during dobutamine stress echocardiographic studies using segmental analysis of color kinesis images, 409

Ventriculectomy
Ventricular reduction therapy: controlled clinical trials overdue (letter), 610

Verapamil
Angina pectoris: myocardial infarction and verapamil (letter), 957
Pretreatment with verapamil in patients with persistent or chronic atrial fibrillation who underwent electrical cardioversion, 810

Viability
See Myocardial viability

Viewpoint
How much to lower serum cholesterol: is it the wrong question?, 289

Viewpoints
Cause of death in clinical research: time for a reassessment?, 618
Outcome studies—are all antihypertensive drugs created equal?, 1652

Vitamin E
Antioxidant vitamins: sorting out the good and the not so good (editorial comment), 1216
Differential effects of α- and γ-tocopherol on low-density lipoprotein oxidation, superoxide activity, platelet aggregation and arterial thrombogenesis, 1208

Wolff-Parkinson-White syndrome
Gated blood-pool SPECT evaluation of changes after radiofrequency catheter ablation of accessory pathways: evidence for persistent ventricular preexcitation despite successful therapy, 1839

Women
See also Estrogen; Gender issues; Hormone replacement therapy
Intravenous immune globulin in the therapy of peripartum cardiomyopathy, 177